ZODIAC

NOOSA REEF

Oval Instruction Manual 2007-2008

To be used in conjunction with the DVD.

VOGUE

Zodiac, Mastering the Elements

Renowned worldwide for the quality and reliability of its products in the aeronautical and marine sectors, Zodiac has now brought its expertise to swimming pools, to bring you a full range of pools, automatic pool cleaners and water treatment systems.

Backed by Zodiac technology, expertise and experience, Zodiac brings you the reassurance of top quality equipment in terms of both design and performance.

A real guarantee of efficiency and peace of mind!

Introduction. 2

Tools required 5

Parts list. 6

Site selection 9
Site preparation 10

Positioning the channels 15

Noosa Reef Deep End 20
Deep End excavation 21
Deep End Channel Positioning 23
Deep End part quantities. 27
Deep End parts list 28
Deep End frame assembly 29

Positioning the channels 31

Assembly 32

Liner installation 45

Assembly of Top Deck 49

Skimmer box Installation 52

Backfill requirements for Noosa Reef inground installation 54

Pool care questions and answers 56

Warranty Terms and Conditions 60

Dear Customer,

Congratulations! You are now the owner of an innovative Zodiac swimming pool that will allow you to make the most of your summer. These instructions will help you easily and correctly install your Zodiac modular pool. Read them carefully and make sure you understand them before you proceed. Before you begin, here is some additional information that will help you through the installation process: Finding the right location for your pool is of the utmost importance. To find the right spot, you must ask yourself a number of questions. How far is the property line? Are there electrical lines overhead or underground? What about telephone lines, or gas and water pipes? You must also consider the slope, soil composition and drainage on your property as well as the climate, prevailing winds and available sunlight.

Minimum bearing capacity of ground under pool is to be 80k Pa. This may need an engineers soil test to verify. Unstable soil may result in the pool moving and not remaining level.

Before commencing the installation of your pool, ensure that you have complied with council requirements and obtained the necessary council permits.

Installation requires a minimum of 2 people and the amount of time varies according to the size and model of the pool you have. However, it generally takes about 8 hours for an oval pool (not including the time required to prepare the site and fill up the pool).

We also suggest installing your pool on a sunny and windless day. Installation of the liner on a warm day will make it easier to fit.

Before starting to use your pool, it is important to know all about water treatment. We also recommend that you check the fastenings (bolts and screws) every year to make sure that all of the parts are in good shape.

Ensure that the water level in your pool is maintained at the correct level for safe operation of the filtration system. Never leave your pool empty. This can result in severe damage to your pool liner.

Never dive or jump into a modular pool and never walk or sit on the top deck as it is very dangerous and serious injuries may occur. Failure to adhere to instructions concerning maintenance, safety, assembly, start-up and use could pose serious health risks, especially to children. Your pool is designed to provide years of enjoyment, as long as it is carefully and correctly installed and maintained. Read and make sure you understand the instructions before you start. Work step by step, and take your time.
If you encounter any problems during installation or if you require additional information, please contact the Zodiac retailer/dealer
or contact Zodiac Group Australia Pty Ltd
by phone 1800 229 526 or by fax 61 2 9757 2860

Happy swimming!

POOL WARRANTY REGISTRATION

Your pool is warranted by Zodiac Group Australia Pty. Ltd. It is advisable to register your pool within 30 days of purchase. Complete and return your pool warranty registration card to Zodiac Group Australia. If you did not receive a warranty registration card you can register your warranty online at http://www.zodiac.com.au or contact your pool dealer.

POOL CARE

Like a car your pool will remain looking its best if washed occasionally. As water is splashed out of your pool onto the decks, verticals and wall, the water will evaporate leaving behind deposits of concentrated salts. This can be prevented by washing your pool with soapy water then rinsing with fresh water to remove all the salts from the metal components of your pool, even underneath the decks (rinsing with fresh water will help, but soap will give a better result).

SAFETY FIRST!

NEVER UNDER ANY CIRCUMSTANCE stand, walk or sit on the top decks. Any fall could result in spinal or neck injuries and/or possible drowning. Always enter the pool via the step entry system or ladder provided with your pool. Do not jump or dive.

ALWAYS MAKE SURE THAT CHILDREN ARE SUPERVISED whilst in the pool area and make sure that pool fencing and gates are adequate barriers to your children when the pool is not being supervised.

ALWAYS FOLLOW THE INSTRUCTIONS contained in this manual. Incorrect installation can lead to product failure and warranty voids. Please respect that your pool can be holding up to 60 tonnes of water! Make sure that when joining the pool wall all bolts and nuts are used and tightened/ correctly.

ALWAYS KEEP ELECTRICAL HAZARDS AWAY FROM POOL AREA.

NEVER INSTALL YOUR POOL WALL IN WINDY CONDITIONS.

NEVER LIFT WALL CARTONS OR LARGE POOL CARTONS by yourself. These cartons require two people to lift. Remember, lift with your knees bent and not with your back!

KEEP POOL CHEMICALS OUT OF REACH OF CHILDREN AT ALL TIMES.

INTRODUCTION

Congratulations on the purchase of your new Zodiac pool. This pool is the product of more than thirty years continuous development. The pool installation procedure has been set out in easy to follow step by step instructions with illustrations. Please take the time to read your owners manual thoroughly before and during installation of your pool. Your warranty will be void if the procedures in this manual are not followed. If you are having your pool installed by a professional installer it is your responsibility to inspect the work at all stages to ensure that each step being undertaken complies with ALL instructions. Please also read and follow the instructions relative to all accessories, i.e. pumps and filtration prior to installation.

IMPORTANT POINTS

LOCAL REGULATORY BODIES

When installing a new pool, you must comply with your local safety regulations and codes. As these regulations vary from council to council it is a must that you check with your local council what the requirements for your site are, i.e. fencing requirements. COMPLYING WITH LOCAL REGULATIONS AND CODES ARE YOUR RESPONSIBILITY.

CONTRACT INSTALLATIONS

Proper installation procedures are essential to ensure the best performance and durability of our pools in service. Zodiac are not affiliated with any pool installers and we cannot accept any responsibility for problems caused by incorrect installation procedures. It is strongly recommended that only reputable licenced and insured professional installers undertake the work ensuring that it complies with the instructions contained in this manual. (not applicable in all states)

BEFORE YOU START

Before attempting pool installation, please make yourself familiar with the DVD and this manual. Make sure that the instructions relate to the correct pool. Take the time to study the step by step procedures; an extra half an hour now could save complications later on.

Allow plenty of time for installation, start early in the day. The installation process is made up of six defined stages.

1. Site selection
2. Site preparation
3. Frame installation
4. Wall installation
5. Liner installation
6. Skimmer box installation

Great care should be taken with all stages. If the site preparation and cross channel installation are not done with care and/or by following the instructions contained in this manual the structural integrity of your pool may be reduced.
Take time, check and re-check.

Check lists can be found at the start of each frame installation section. **Do not commence installation with parts missing.**

Ensure that you have all the required tools on hand before commencing and make sure that you have help on hand at all times.

IMPORTANT

This pool has been designed and engineered (which complies with an approved engineer certificate). Installation of the pool should be as shown in the assembly manual. Any deviation from this manual could cause serious injury and void warranty of the pool.

TOOLS REQUIRED

Compactor

Measuring tape

Pick or mattock

Hammer

Duct tape

Soil/ sand spreader

Water hose

Trowel

Spray paint

Spirit level

Vacuum cleaner

String line

Rake

½" (12 mm) wrench
¼" (6 mm) wrench

Shovel

Water filled roller

Water level tube

12 x 15"(40cm)
Steel pegs

3 Phillips head screw drivers

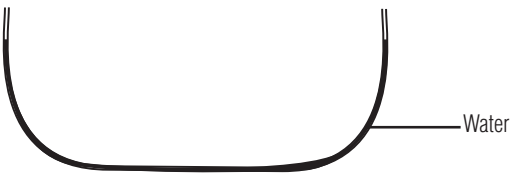
2m x 100mm x 50mm
Wooden plank/ straight edge

Wheelbarrow

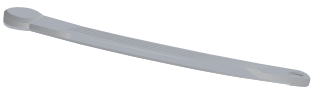
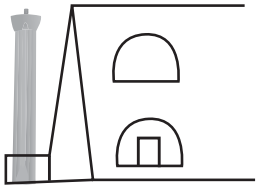
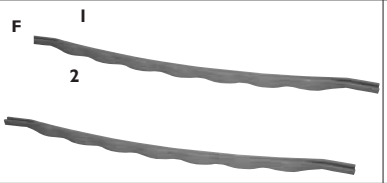
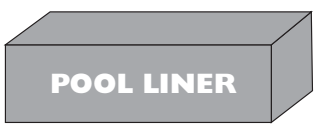
Cement

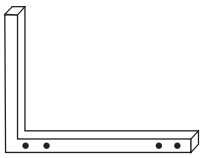
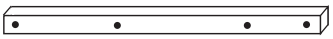
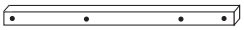
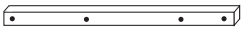
Clear plastic hose

Cut a piece of 9mm tubing around 20cm long, fill the tubing with water. This can then be used to find the level between one side and the other.



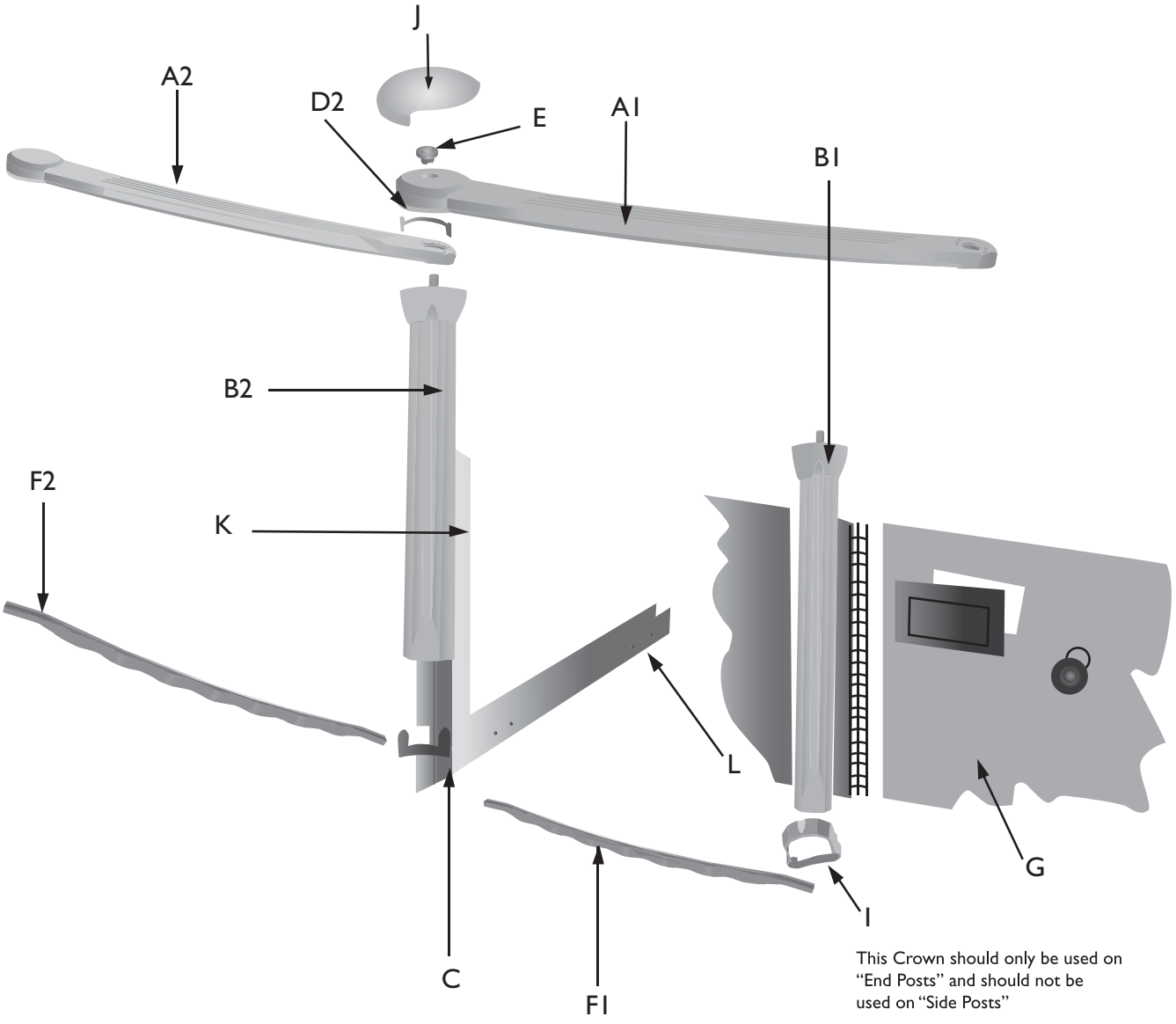
PARTS LIST

Ref.	Part	Model	2012	2412	2315	2715	3015	3815	
		Size	3.66 x 5.94 m	3.66 x 7.08 m	4.57 x 6.85 m	4.57 x 7.99 m	4.57 x 9.13 m	4.57 x 11.41 m	**Carton**
A1		Radius/ curve long top deck 15' PSL 725-001-R	-	-	10	10	10	10	Deck carton
		Radius/ curve long top deck 12' PSL 725-001-R12	8	8	-	-	-	-	Deck carton
A2		Straight side short top deck PSL 725-001-0	4	6	4	6	8	12	Deck carton
B		Resin upright ends (1) PSL 725-002-52	1-6	1-6	1-8	1-8	1-8	1-8	Vertical carton
		Resin upright sides hollow (2)	2-6	2-8	2-6	2-8	2-10	2-14	
		Open end exposed PSL 725-002-52ov							
C		Artium joiner plate P20850	12	14	14	16	18	22	ACC Box
D		Long pin P1000114	6	8	14	16	18	22	ACC Box
E		EZ-lock atrium P1000116	13	15	15	17	19	23	ACC Box
F		Wall channel round end section P13056UKIT	1-8	1-8	1-10	1-10	1-10	1-10	Rail Box
		Side section (2) P1294215	2-4	2-6	2-4	2-6	2-8	2-12	
G		Wall with skimmer and returns outlets	1	1 PWAL403	1 PWAL406	1 PWAL404	1 PWAL405	1 PWAL409 / 410	Wall carton
H		Liner Brookstone	1 PH40BBST -121952	1 PH40BBST -122352	1 PH40BBST -152252	1 PH40BBST -152652	1 PH40BBST -153052	1 PH40BBST -153852	Liner
		Brookstone Deep End	N/A	PH40BBST -1223X52	N/A	PH40BBST -1526X52	PH40BBST -1530X52	PH40BBST -1538X52	
		Opal	PH22TPSL -121952	PH22TPSL -122352	PH22TPSL -152252	PH22TPSL -152652	PH22TPSL -153052	PH22TPSL -153852	
		Opal Deep End	N/A	PH22TPSL -1223X52	PH22TPSL N/A	PH22TPSL -1526X52	PH22TPSL -1530X52	PH22TPSL -1538X52	

Ref. Part	Model Size	2012 3.66 x 5.94 m	2412 3.66 x 7.08 m	2315 4.57 x 6.85 m	2715 4.57 x 7.99 m	3015 4.57 x 9.13 m	3815 4.57 x 11.41 m	Carton
I	Base crown PSL 725-007	6	6	8	8	8	8	ACC Box
J	Seal cap PSL 725-006	12	14	14	16	18	22	ACC Box
K  Green	P Post R	6	8	6	8	10	14	Separate
L  Orange	Joiner channel Female E P160563	6	8	6	8	10	14	Channel
DI  Yellow	Joiner channel Male D P160564	6	8	6	8	10	14	Channel carton x1
DI  Green	Joiner channel Female C P160562			3	4	5	7	

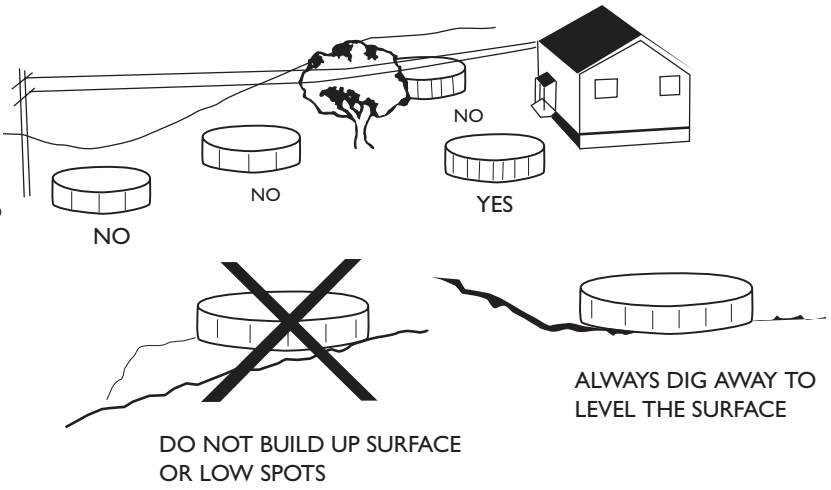
Bolt Identification

Use	Specifications
Wall Joint	1/4” x 3/8” Roofing bolt (Stainless) 1/4” x 9/16” Flat washer (Stainless) 1/4” Hex nut (Stainless)
Joiner Channels Female to Male	1/2” x 1” Bolt (High Tensile) 1/2” Hex nut (High Tensile) 1/2” x 1 1/8” steel washers
P Post (P Post to Female)	12mm x 100mm (High Tensile) 12mm Hex nut (High Tensile)


J
A2
D2
E
A1
B1
B2
F2
K
L
G
I
C
F1
This Crown should only be used on "End Posts" and should not be used on "Side Posts"

A. DETERMINE POOL LOCATION

Look over the various pool locations shown at right



1. TERRAIN

Look over your property for the most ideal pool location. A large area is best. If you have no flat area large enough for the pool then try to pick a spot where you would have the least amount of digging to do. Do not install in a major water drainage depression or sewer drain field. Ground area around the pool foundation should be level for 900mm out from base of pool.

2. CONVENIENT ELECTRICAL OUTLETS

Your pump and other accessories are operated by electricity. If there are no outside electrical outlets, you must have them installed by a qualified electrician.

3. OVERHEAD ELECTRICAL WIRES

The pool should never be placed directly under any overhead powerlines for precautionary measures.

4. UNDERGROUND CABLES – CHECK WITH LOCAL AUTHORITIES!

Before you start digging into the ground to level the surface, it would be wise to check with your council as to the location of any underground lines or pipes. Dial 1100

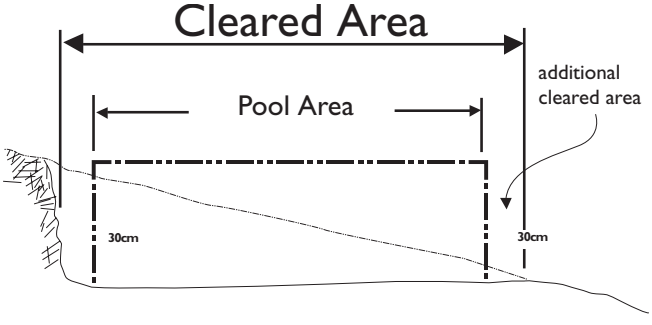
5. TREES

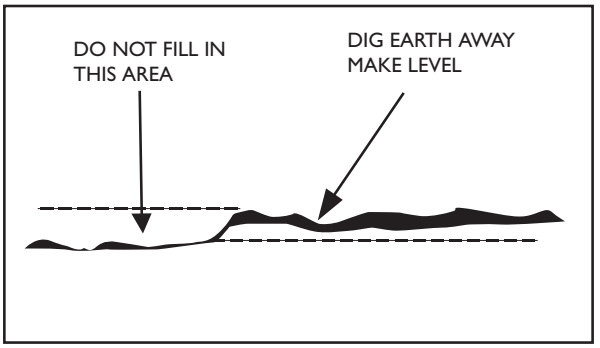
Trees and their occupants are not the best of friends with swimming pools. Falling leaves, branches and sap can be a constant problem in keeping the pool water clean (along with bird droppings and insects falling into the pool). These materials will necessitate cleaning your filter unit more often. The further away from the tree, the better for your pool.

B. CLEAR AREA

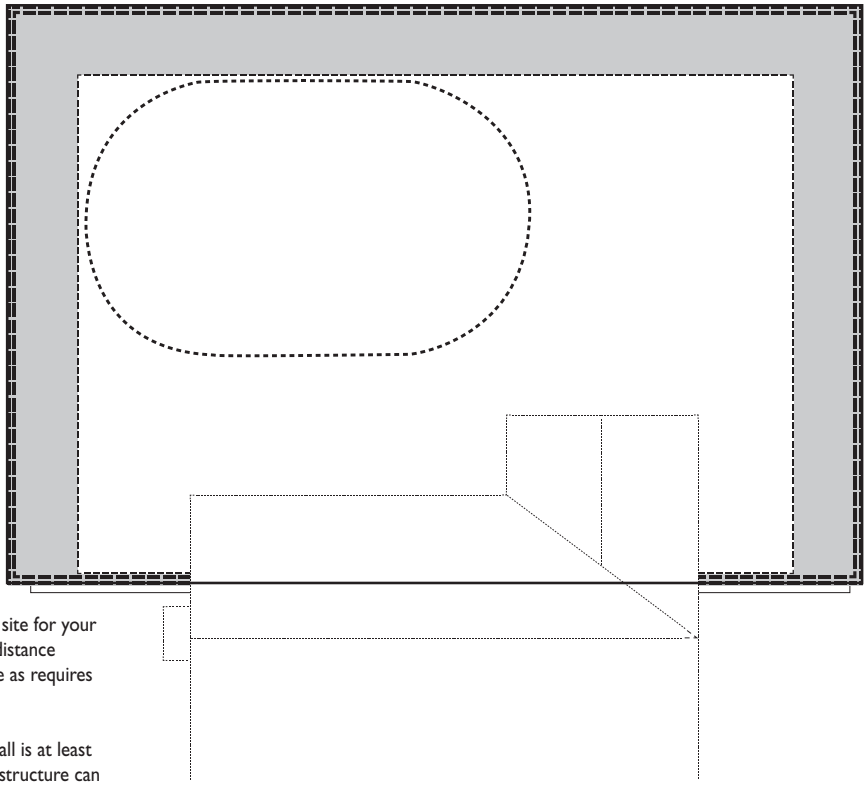
Clear the area of anything which may damage the pool. Remove any grass, weeds, stones, asphalt, tarred paper, poison, nut grass or weeds (NOTE If weed killer is used wait 3 days after spraying before installing your pool, some poisons will adversely effect the liner). Remove all dead plants as part of site preparation. All of these may puncture the pool liner.

Roughly level an area allowing at least 30cm extra distance around the pool as shown. If a sloping area is used, dig away dirt from high side. The area to clear is shown on the pool layout plan. Take note of where the lowest point is and remove soil to this level.





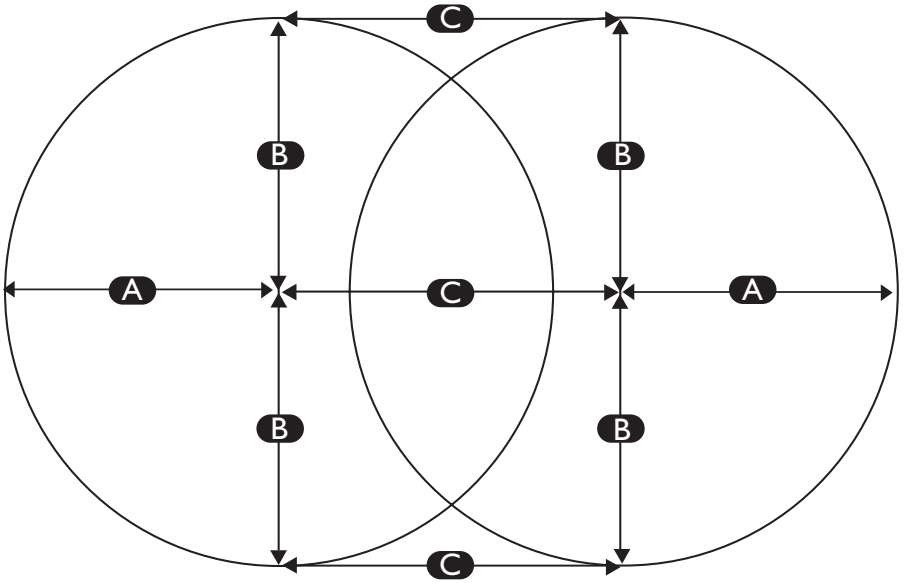
STEP 1.



When you choose the appropriate site for your pool, make sure you allow for the distance between the pool and property line as requires by law in your municipality.

Important: Make sure the pool wall is at least 1 M from the fence so that the substructure can be installed.

STEP 2.

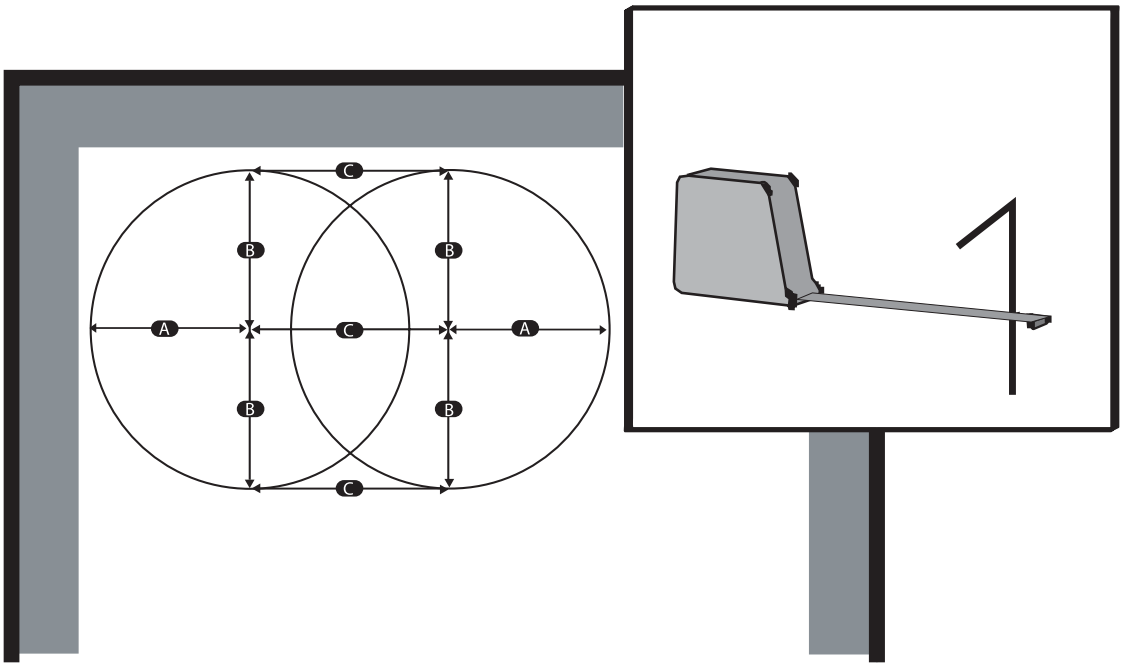


Find a site where the ground is stable, level and well drained. Once you have selected your site, trace the lines in accordance with the above diagram. Each line to be traced in is clearly identified by letter A,B or C, which corresponds to a different length, according to the size of your pool.(Refer to chart)

Note: Line B is about 30.5 cm (12") longer than the diameter of the assembled pool (see illustration) This will allow you more leeway to work.

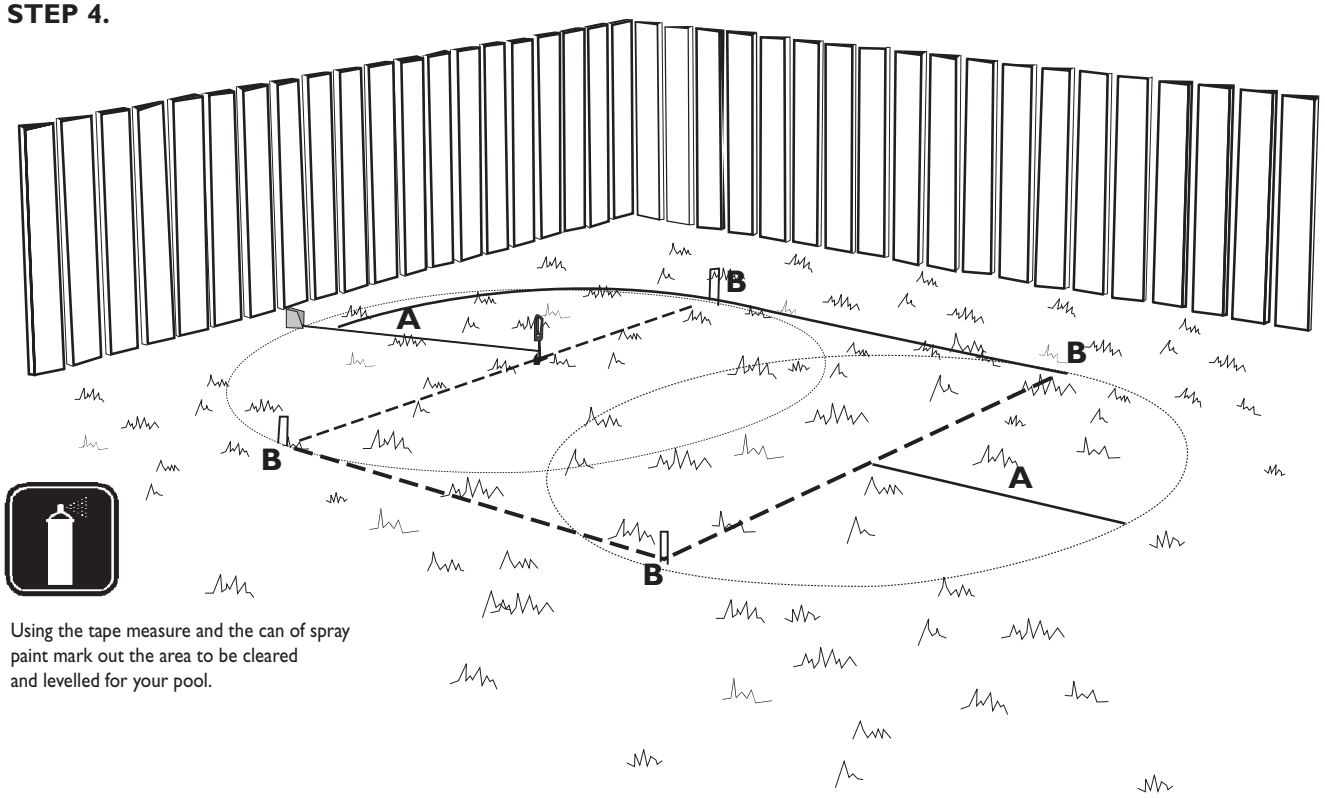
Model Size		2012 3.66 x 5.94 m	2412 3.66 x 7.08 m	2315 4.57 x 6.85 m	2715 4.57 x 7.99 m	3015 4.57 x 9.13 m	3815 4.57 x 11.41 m
Dimensions	A & B	2 m	2 m	2.5 m	2.5 m	2.5 m	2.5 m
	C	2.6 m	3.9 m	2.9 m	3.9 m	5 m	7.5 m

STEP 3.



Using the steel pegs at the centre of both circles attach the end of the measuring tape to the steel pegs.

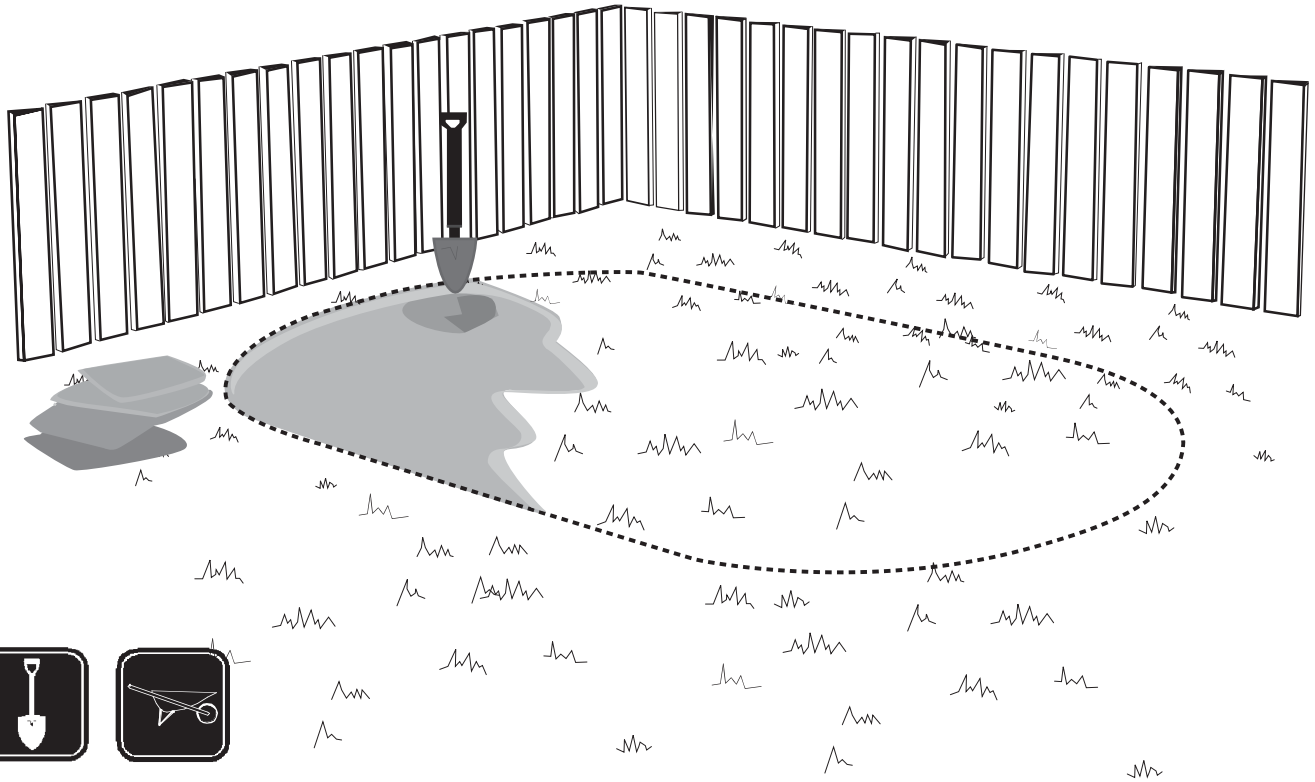
STEP 4.



Using the tape measure and the can of spray paint mark out the area to be cleared and levelled for your pool.

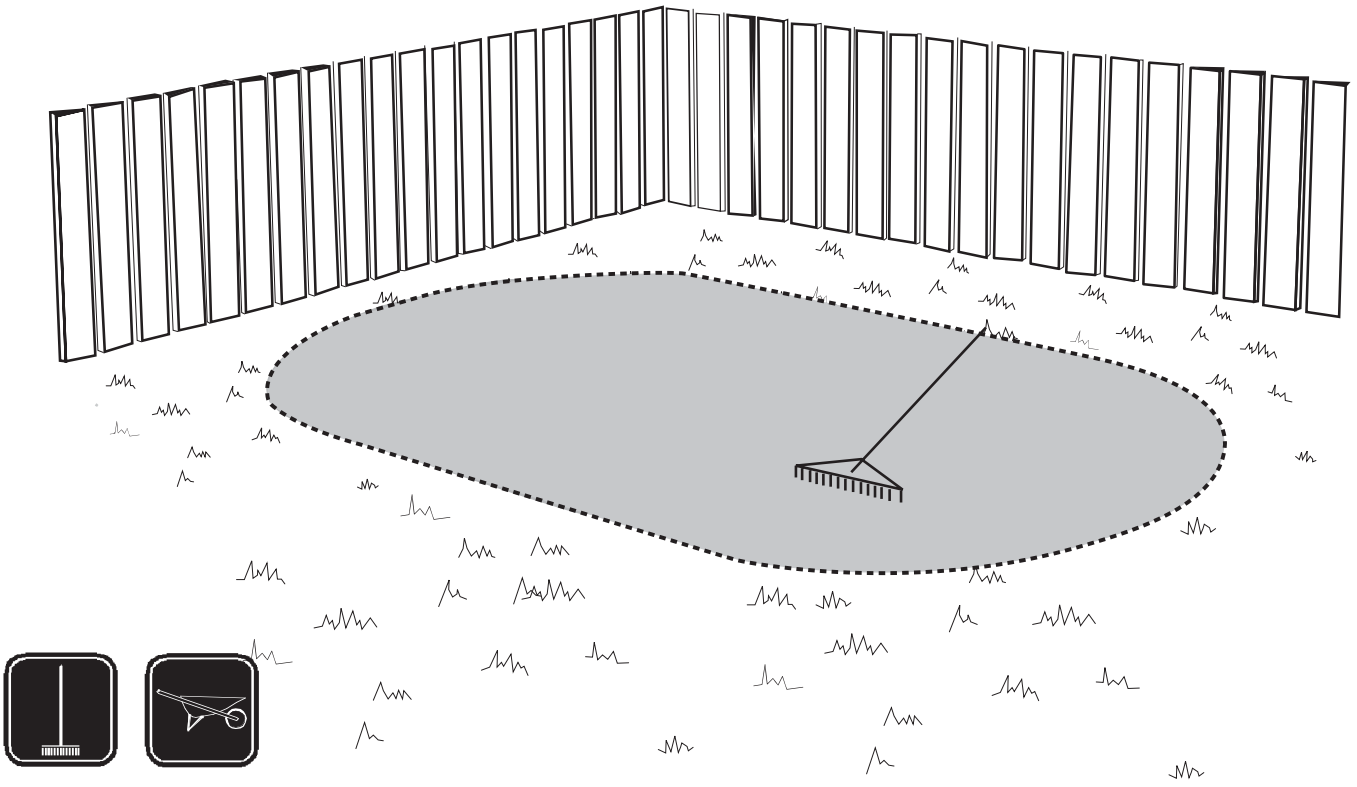
Model Size		2012 3.66 x 5.94 m	2412 3.66 x 7.08 m	2315 4.57 x 6.85 m	2715 4.57 x 7.99 m	3015 4.57 x 9.13 m	3815 4.57 x 11.41 m
Dimensions	A & B	2 m	2 m	2.5 m	2.5 m	2.5 m	2.5 m
	C	2.6 m	3.9 m	2.9 m	3.9 m	5 m	7.5 m

STEP 5.



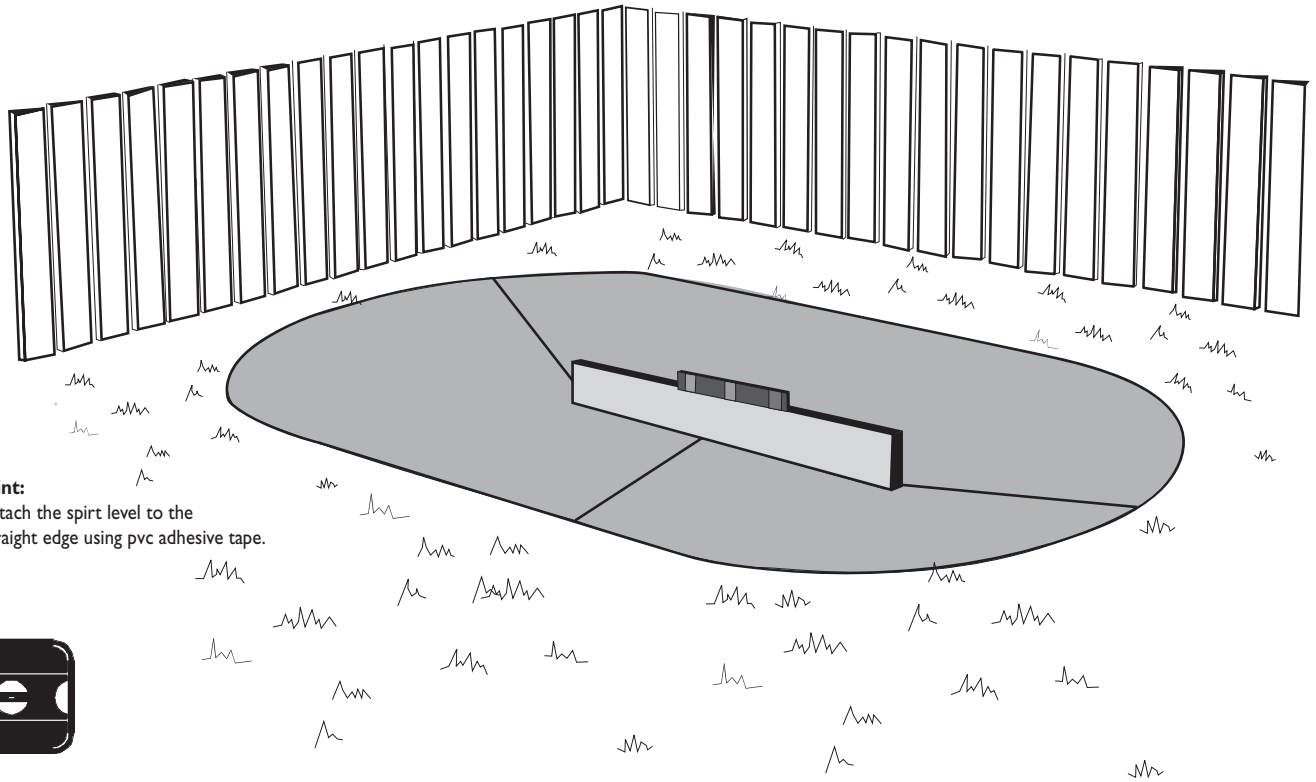
Remove any grass sod and tree roots from the area you have just outlined.

STEP 6.



Rake out pebbles, roots and other debris.

STEP 7.

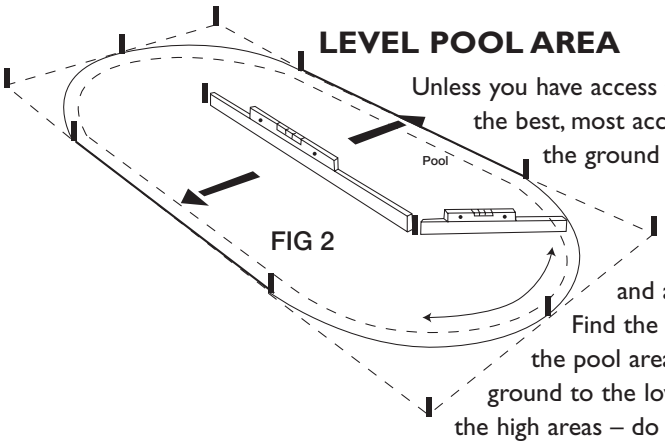


Hint:
Attach the spirt level to the straight edge using pvc adhesive tape.

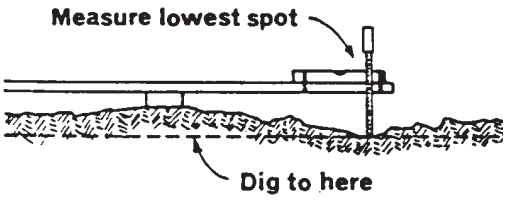
Materials:
- Straight wood plank

Locate the lowest point and level the ground.
You should never fill in holes. Level out bumps instead

LEVEL POOL AREA



Unless you have access to a surveyor's level, the best, most accurate way to level the ground is with a straight plank (100mm x 50mm will do but it should be straight) and a spirit level (fig 2.). Find the lowest spot within the pool area and level the ground to the lowest point. Dig away the high areas – do not fill in the low areas .



Machine excavated sites are rarely level. It is still necessary to hand trim to ensure that the framework will be level. The most critical areas are the pool perimeter and cross channels. The pool floor should be generally level but the sand base can be used to fill any low spots. Note: If not level, pool wall could buckle or crease.

BE SURE: recheck the level of the entire pool area. The success of installation depends upon how well this is performed.

Once the site has been cleared and levelled it is time to start assembling the base channels and P.Posts.

IMPORTANT NOTE:

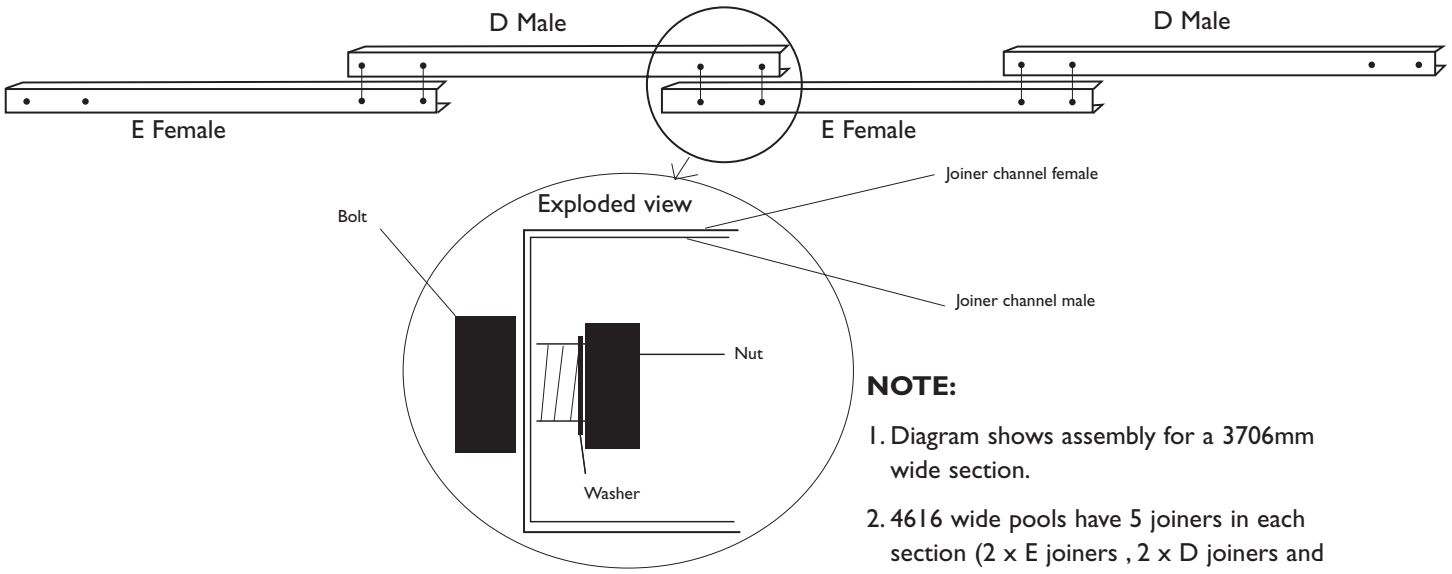
Some noxious weeds, such as onion weed can grow up through the liner material damaging your pool liner.
To guard against this we reccomend that you treat the area with a suiteable weed killer(poison). Please insure the weed killer you use is a recognised product and will not have any detremental effects on the vinyl material used in your pool liner.

STEP 8. ASSEMBLY

Identify the P. posts, joiner channels (female E), joiner channels (male D) and joiner hardware (nuts,bolts & washers) required for your size of pool.

Lay these components out on the ground in their correct order and assemble them as per the instructions in step 9. below

NOTE: Refer to page 17 for the layout of the size of the pool you have purchased.



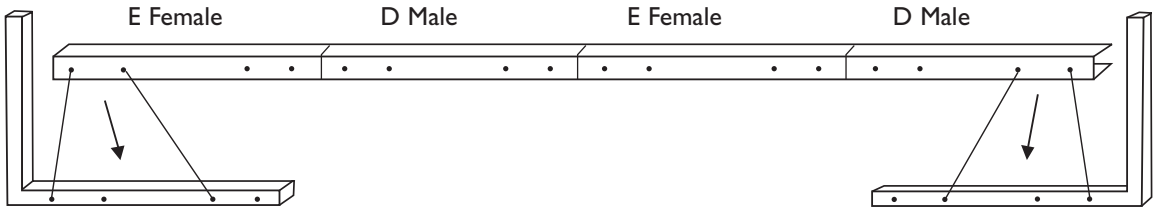
NOTE:

1. Diagram shows assembly for a 3706mm wide section.
2. 4616 wide pools have 5 joiners in each section (2 x E joiners , 2 x D joiners and 1 x C joiner

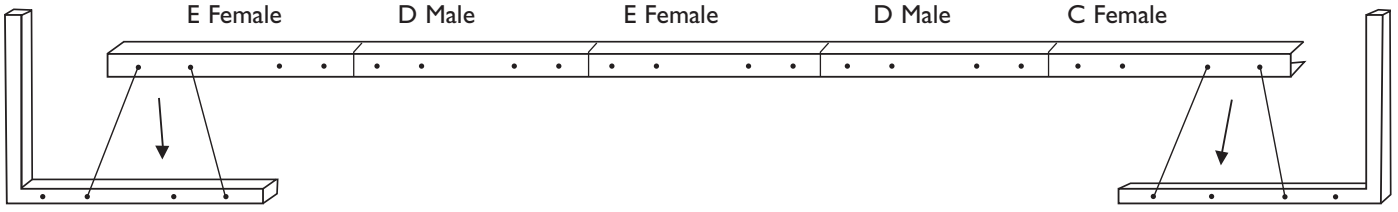
STEP 9. FRAME ASSEMBLY

Once the joiner channels have been assembled and bolted together the channel assembly is to be attached to the P.Posts. The same components are used for both 3.6m wide pools and 4.5m wide pools, except a C Female joiner is added to the 4.5m pools. The joining configurations are shown below.

3.8m wide

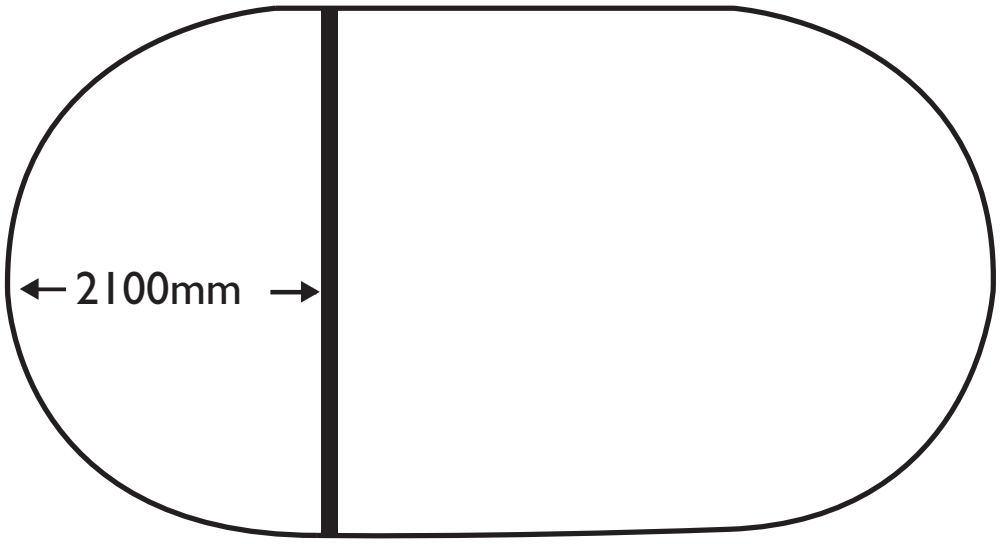


4.5m wide



STEP 10.

Once the channels have been assembled and all of the nuts and bolts have been tightened, It's time to position the assembled frames into the pool site. Place the first assembled channel across the width of the pool at a point 2100mm from the end of the cleared area.



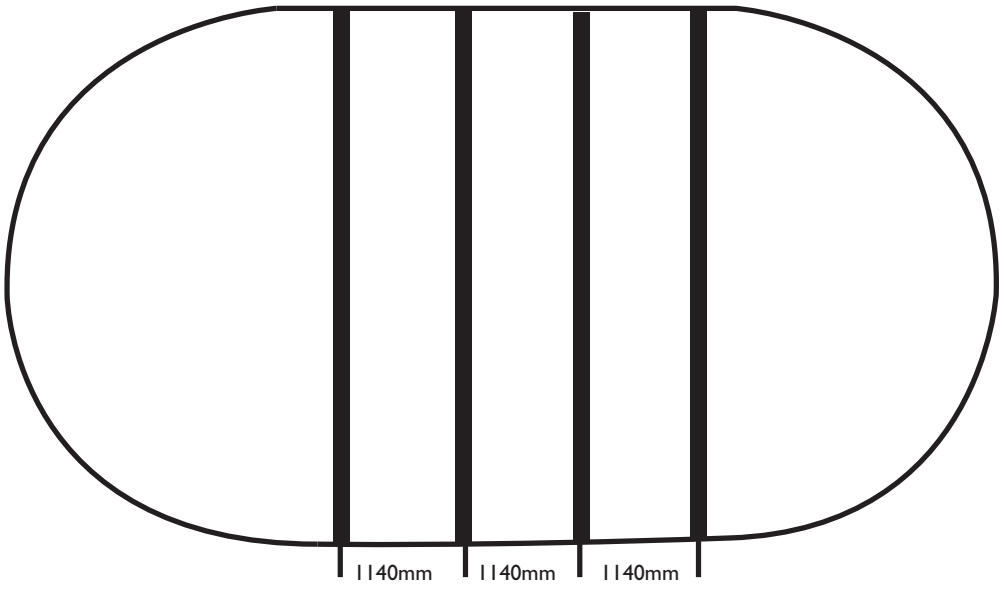
NOTE:

2100 Refers to a 3.66m Pool, 2540 refers to a 4.57m pool.

STEP 11.

Place the 2nd and remaining channels at a point 1140mm from the adjacent channel.

NOTE: 1140mm measurements are taken from the centre of the channels

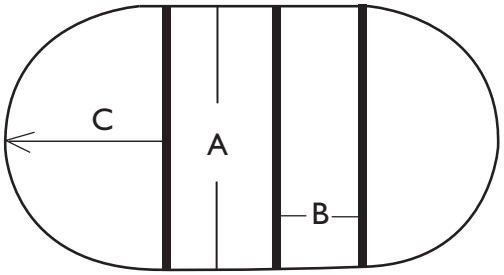


NB. The instructions shown refer to a 7.08 x 3.66 pool refer to page 17. for the measurements for the other pools.

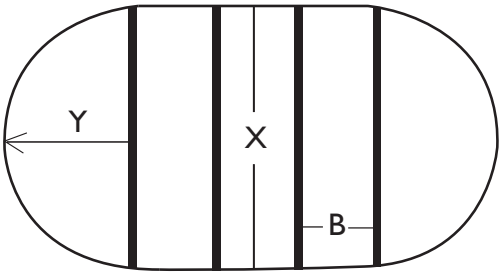
STEP 12. CHANNEL POSITIONING

Refer to page 21 for the end radius of each pool.

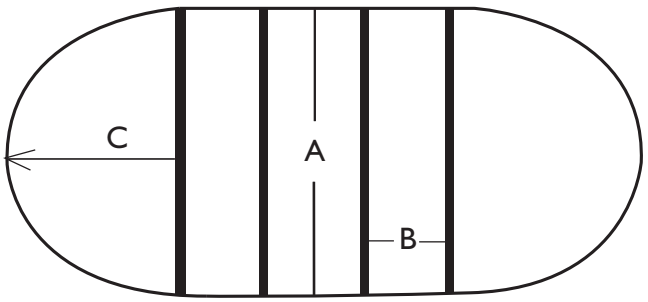
5.94 X 3.66 m - 19800 Lt



7.99 x 4.57 m

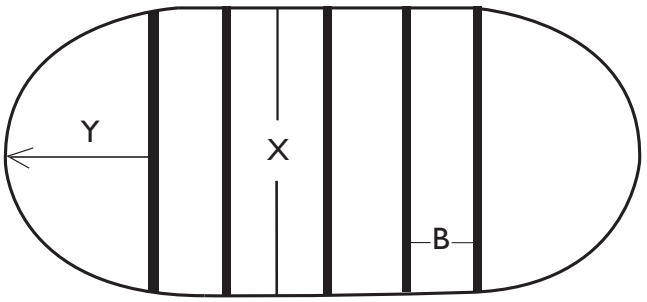


7.08 X 3.66 m - 24200 Lt



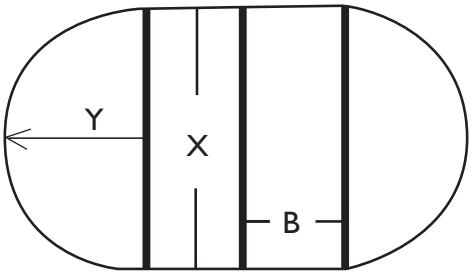
Outside measurement
A= 3856 mm
B= 1140 mm Centres
C= 2100 mm

9.13 x 4.57 m - 38000 Lt

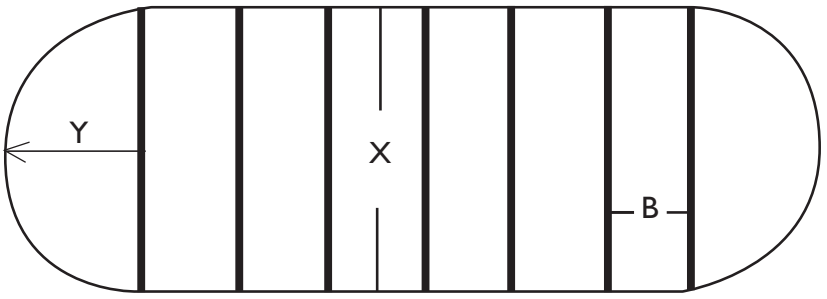


Outside measurement
X= 4766 mm
B=1140 mm Centres
Y= 2540 mm

6.85m x 4.57m - 27650 Lt



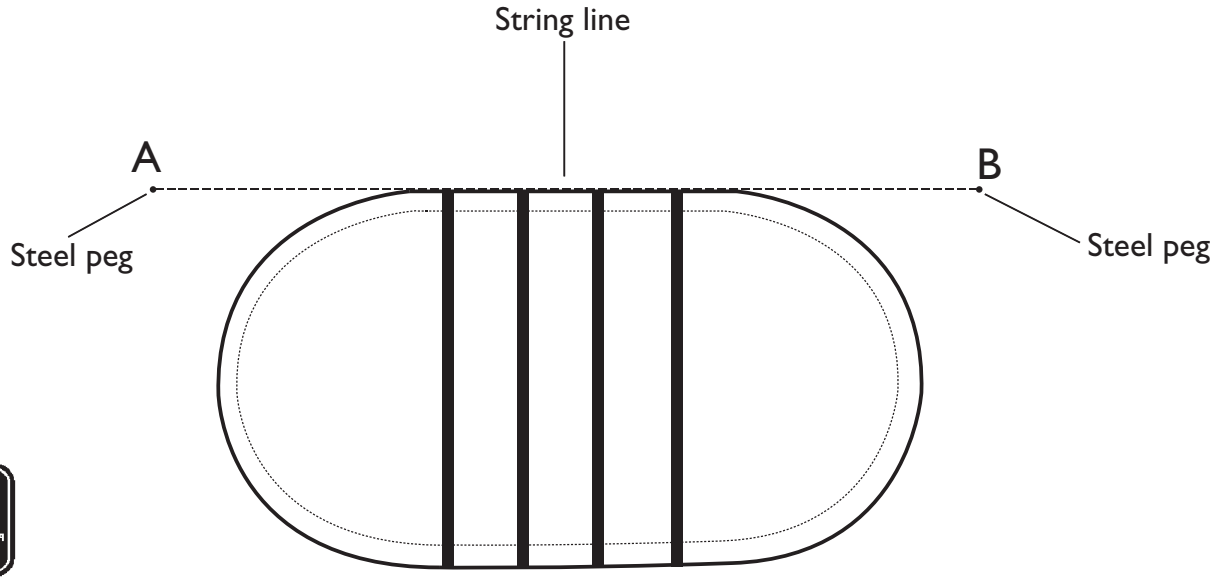
11.41m x 4.57m - 48500 Lt



Note: The width measurements (A or X) can have a variance of + or - 5mm.

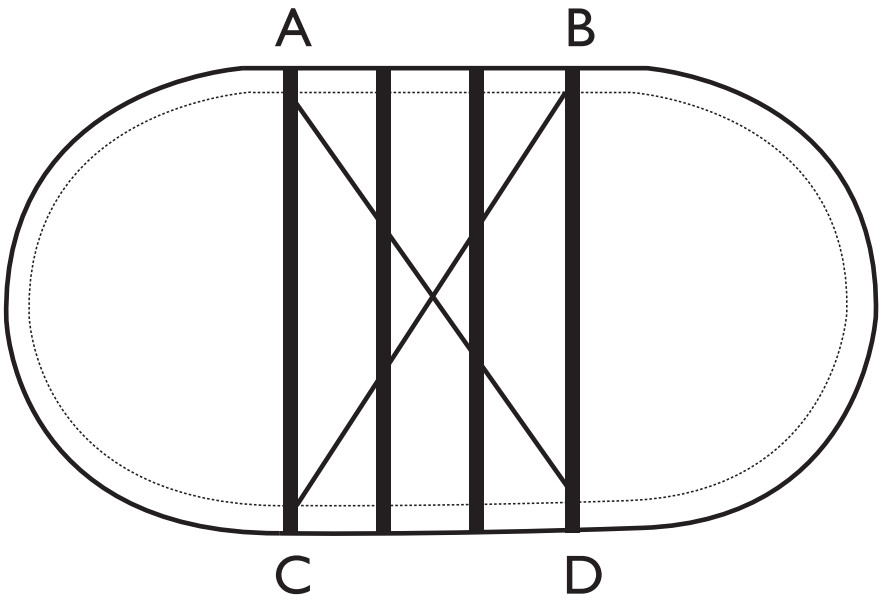
STEP 13.

To check the alignment of the P. posts, position a string line along the back of the posts between two (2) steel pegs. (Points A and B) if the posts are not correctly aligned they need to be tapped back or forward until the back of each post is correctly aligned with the string line.



STEP 14.

Once these steps have been completed you need to check the diagonal measurements of the pool frame.



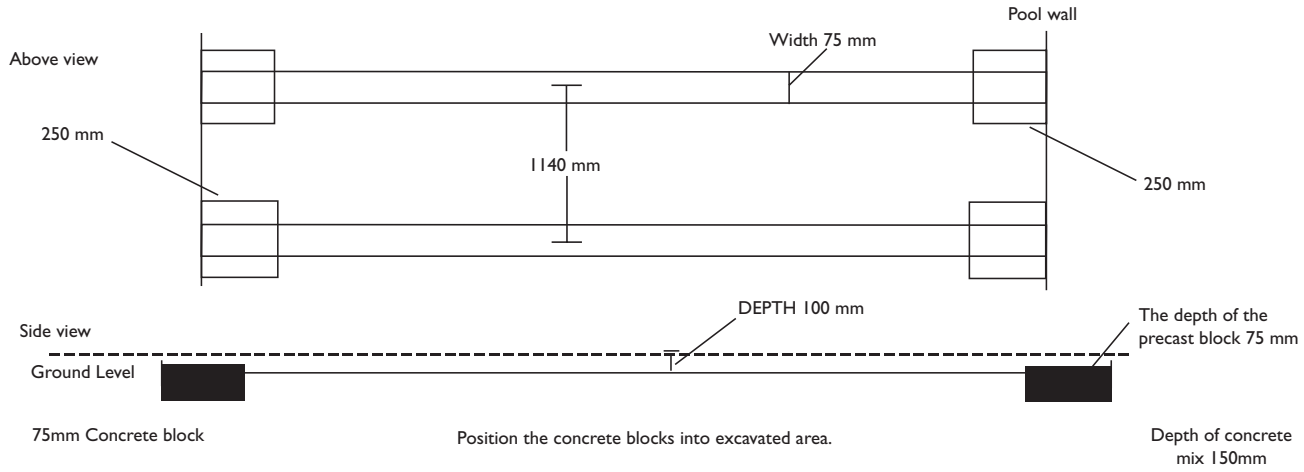
Measure the two intersecting axis to ensure that the two straight sections are parallel.

The measurements of the points A to D and B to C must be equal.

STEP 15.

When the end channels are in the correct position, spray paint a line on either side of each channel across the pool. This is to mark out the areas to be excavated. When these areas have been marked out, the channels can be removed from the site. The marked areas should be excavated to a depth of 100mm x 75mm wide across the pool from one side to the other with a 250 x 250 x 150mm excavation at each end for the positioning of the pre-cast concrete blocks.

An alternative to concrete blocks is to pack a strong sand/ cement/ screenings mix under the back of the channels (Rapid set pre mix is ideal for this purpose). If you are using the cement mix rather than the concrete blocks, the excavations at the ends of the channels will need to be dug out to 250 x 250 x 150mm.



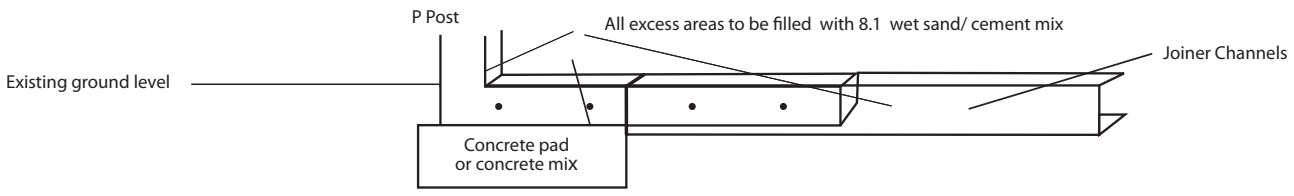
NOTE- If using cement mix instead of concrete blocks, the cement mix is put in place after the channels have been positioned and levelled.

STEP 16. INSTALLING FRAMES

Frames should be installed in such a way that no horizontal part of the P Post is situated higher than the existing ground level. All P Posts must be level, as well as being level with all other adjacent P Posts. When checking the level of individual P Post it is important to note that the vertical section of the P Post is not perfectly perpendicular to the horizontal, the level must be found on the horizontal member of the P Post and not the vertical. The checking of adjacent P Post can be done by placing a level (if longer than 1.1M) or sufficient straight edge across the top of the adjacent P Post .

THE LEVELLING OF THE P POST IS AN IMPORTANT EXERCISE THAT MUST BE DONE PRECISELY AND REPEATEDLY UNTIL CORRECT.

NOTE- CONCRETE PADS: The use of concrete blocks or concrete mix at each end of the P Post is critical as it distributes the load carried by the frames evenly into the soil below. Not using concrete pads will result in the frame sinking into the ground and disturbing the level of your pool. Pads should be installed as shown below. DO NOT USE HOUSE BRICKS OR BESSER BLOCKS.


P Post
All excess areas to be filled with 8.1 wet sand/ cement mix
Joiner Channels
Existing ground level
Concrete pad
or concrete mix

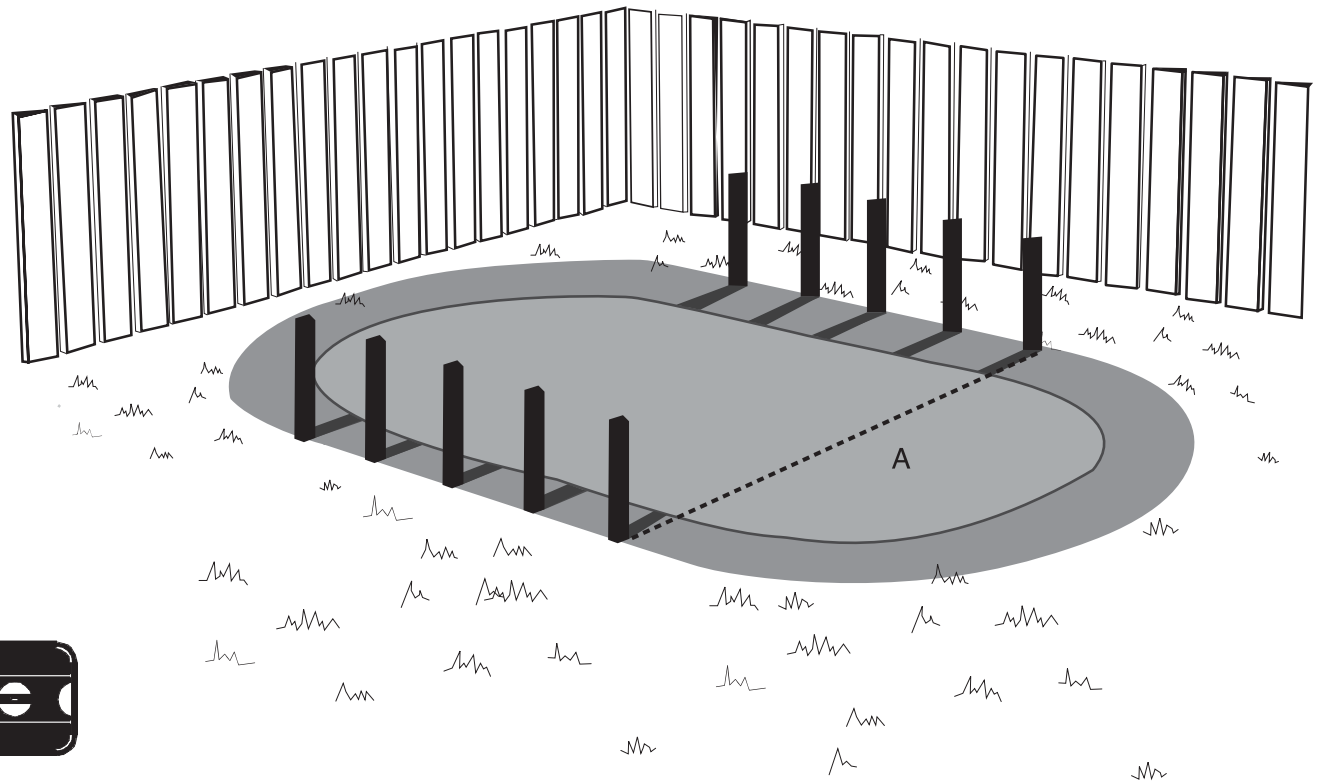
STEP 17.

When all the channels have been positioned and levelled you need to recheck and ensure that the back of the P Posts are all in line and the diagonal (refer to steps 13 and 14) measurements of the P Posts are all correct and equal.
Before proceeding check the measurements for the width of the pool between the inside of the P. posts should be as per table below. The width measurements (A or X) can have a variance of + or - 5mm.

If all of the measurements and levels are correct you can now proceed with the backfill of the channels across the pool and cement mix at the end of the channels.

The excavation for the channels cross the pool needs to be filled in with a wet mix of 8 to 1. sand and cement. This needs to be packed in firmly around the channels right across the pool into the excavations at the end of each channel and up to the ground level (top of the channels)

NOTE: Top of the horizontal P Posts and ground should be level.



Backfill all excavated area with
8 to1 sand and cement mix.

Model Size	2012 3.66 x 5.94 m	2412 3.66 x 7.08 m	2315 4.57 x 6.85 m	2715 4.57 x 7.99 m	3015 4.57 x 9.13 m	3815 4.57 x 11.41 m
Distance A	**3.706 m**	**3.706 m**	**4.616 m**	**4.616 m**	**4.616 m**	**4.616 m**

Noosa Reef Deep End

Excavation & Channel Assembly

All layout measurements and component assembly methods for both deep end and standard oval pools are shown in the Noosa Reef Oval Instruction Manual.

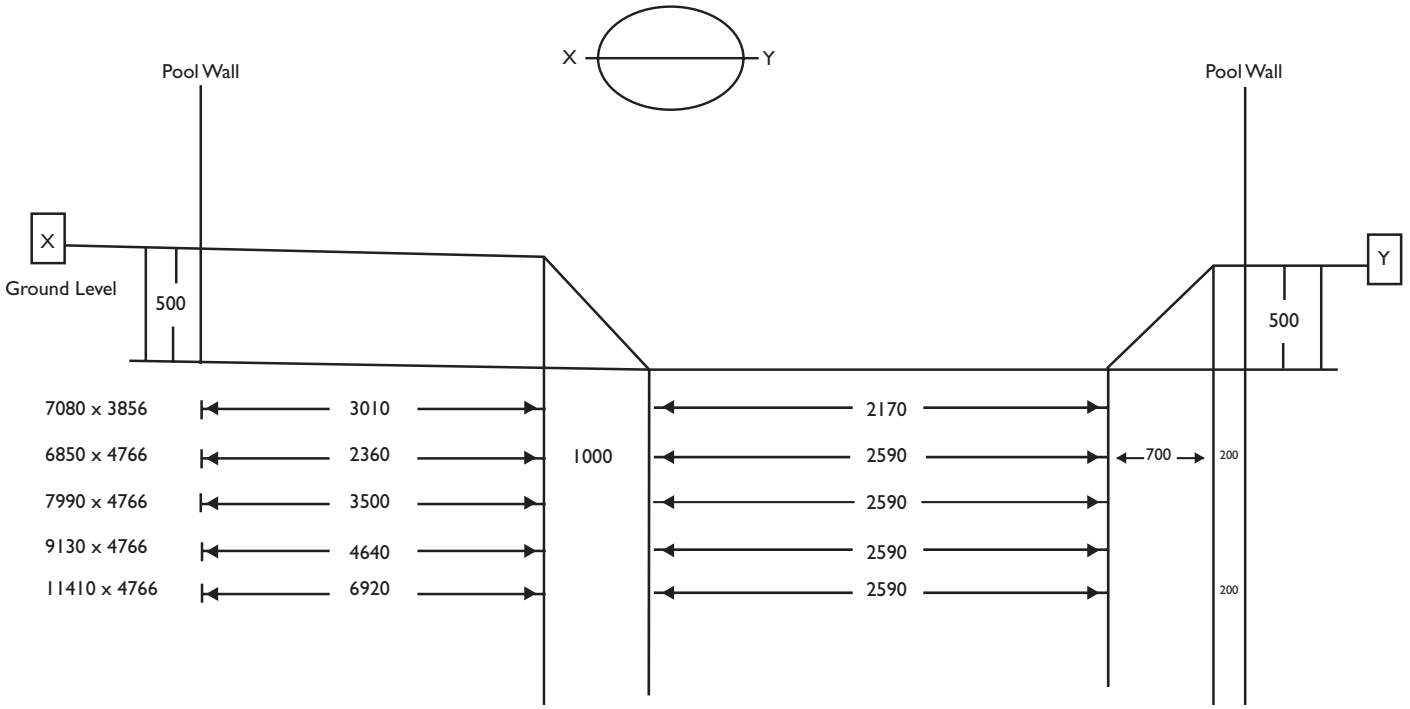
The installation of a deep end pool involves a few more steps regarding site excavation. Site excavation plans and measurements relevant to each model are shown below.

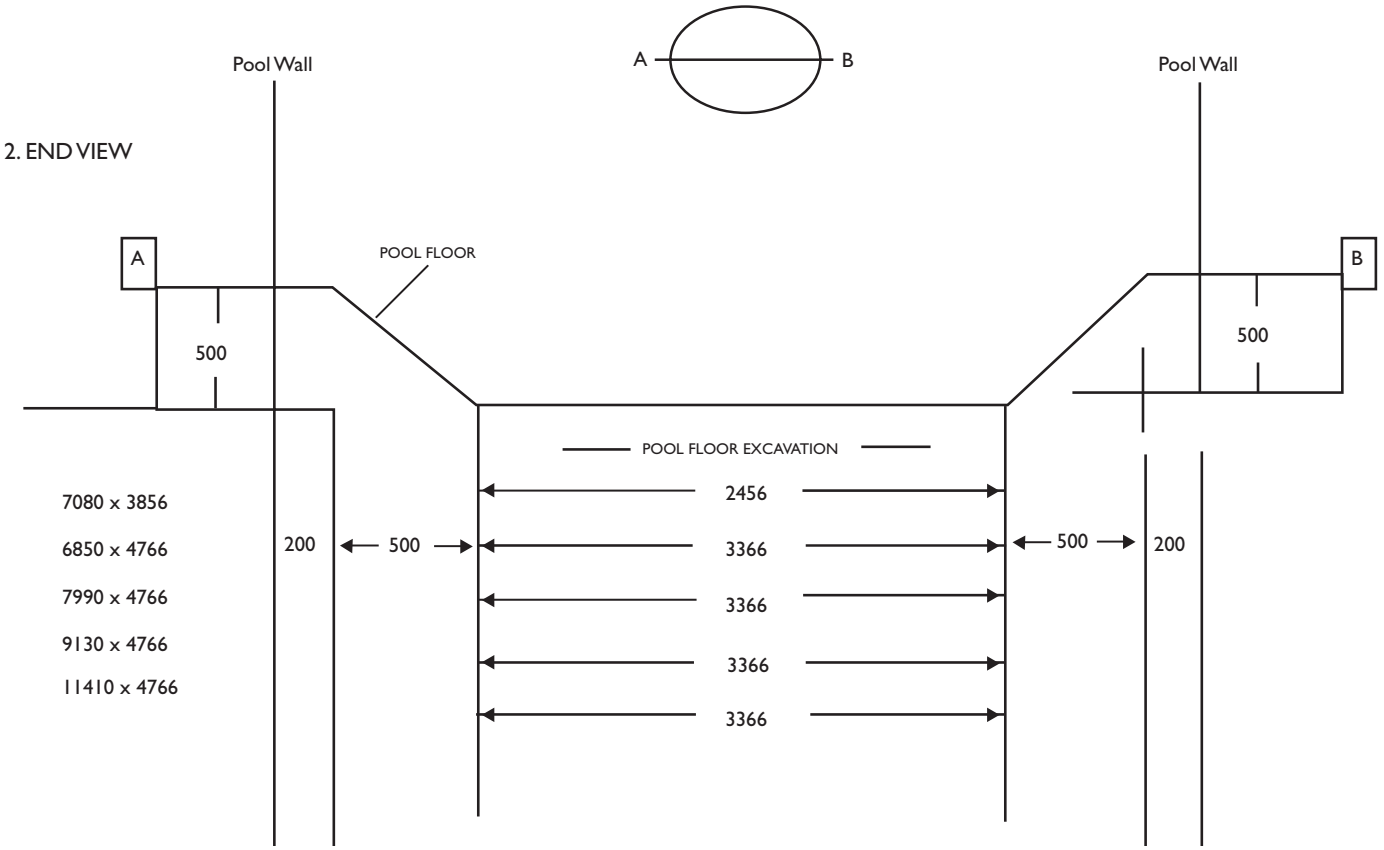
DIAL 1100 BEFORE YOU DIG

Make sure even after any Council approvals that there are no pipes or cables in the excavation area.
Although, shown here in very sharp, straight lines the finished preparation of compacted sand would desirably soften the changes of angle as gradually and as smoothly as possible as to reduce the chance of wrinkling in the liner.

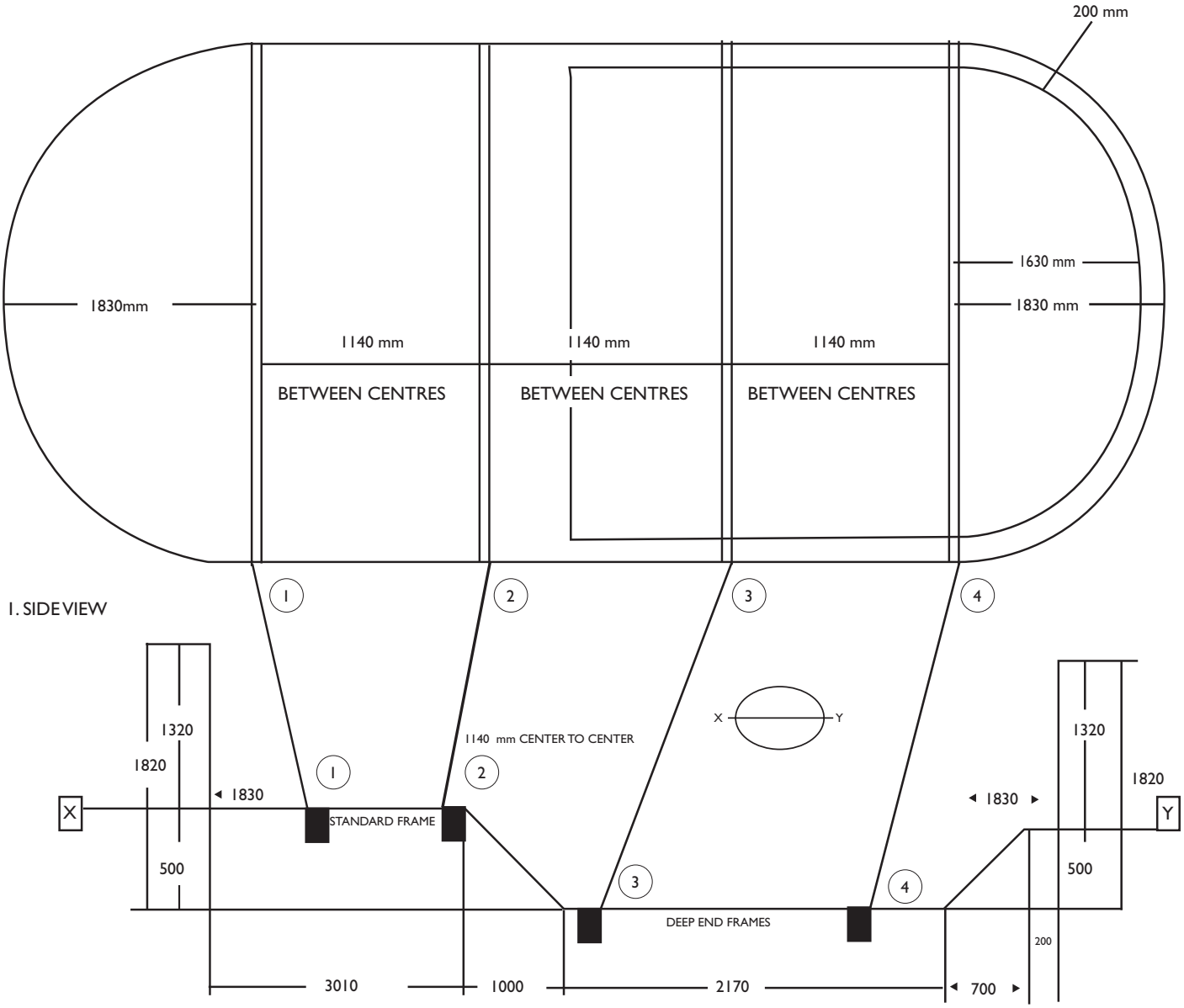
NOOSA REEF DEEP END EXCAVATION PLANS

1. SIDE VIEW



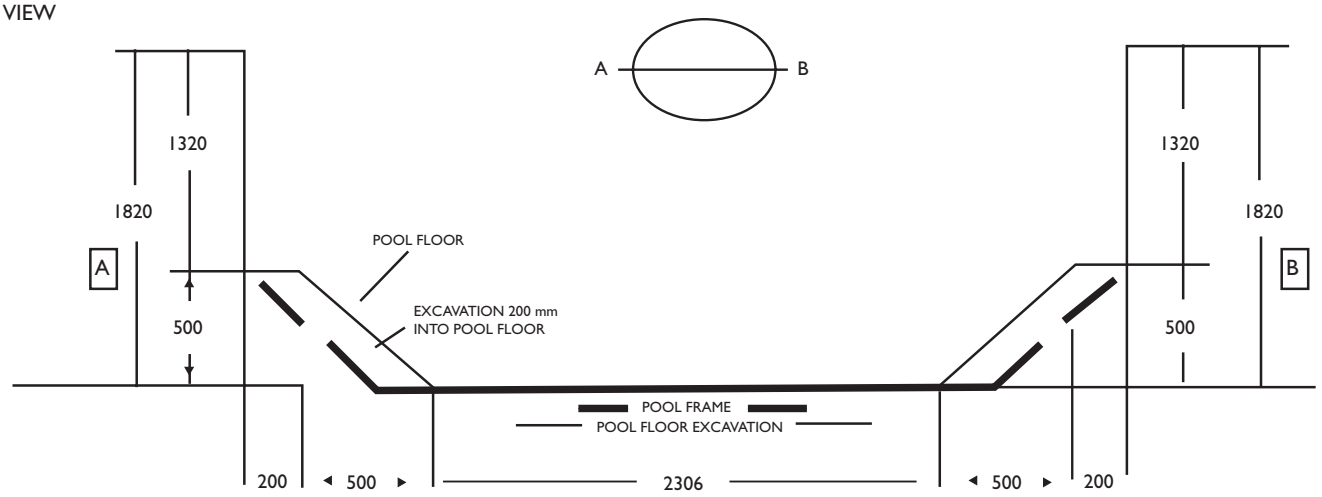

A
B
Pool Wall
Pool Wall
2. END VIEW
A
B
POOL FLOOR
500
500
POOL FLOOR EXCAVATION
7080 x 3856
6850 x 4766
7990 x 4766
9130 x 4766
11410 x 4766
200
500
2456
3366
3366
3366
3366
500
200

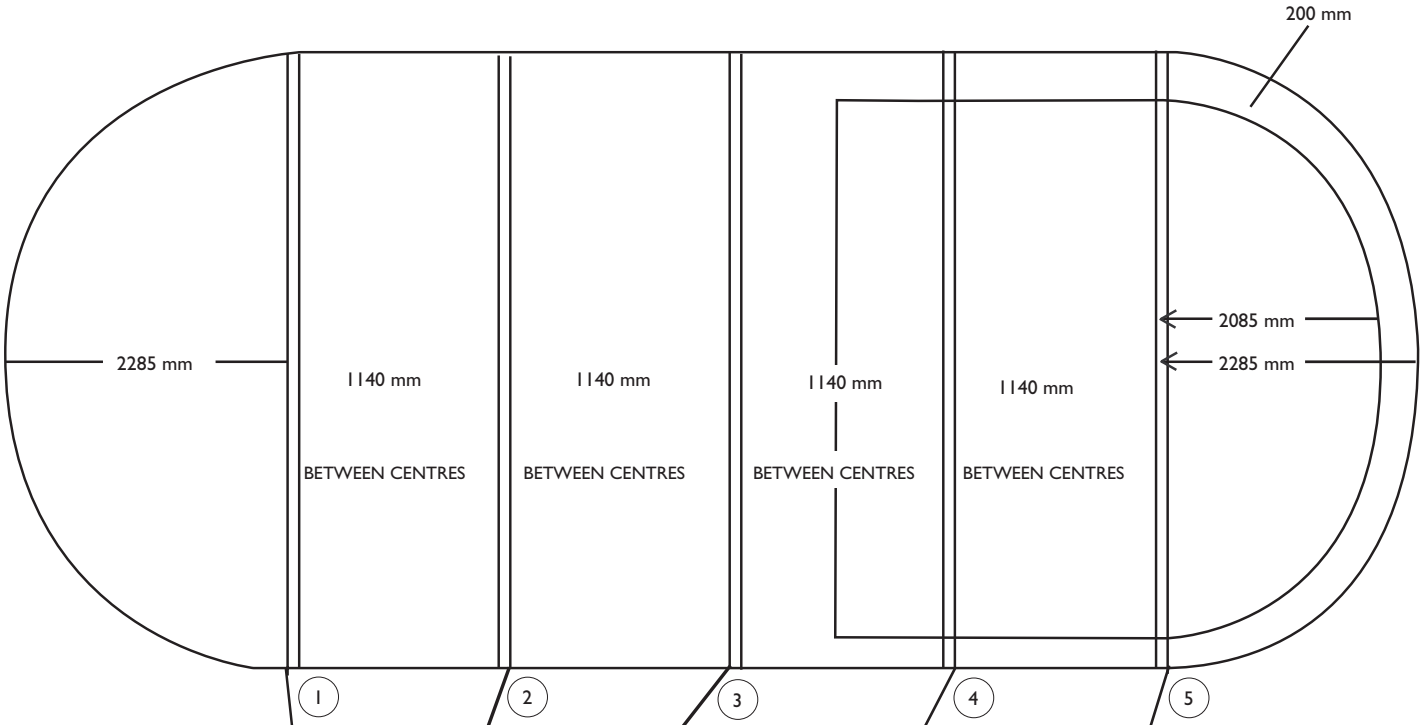
7.08 X 3.66 M X 1.32 NOOSA REEF DEEP END POOL CHANNEL POSITIONING



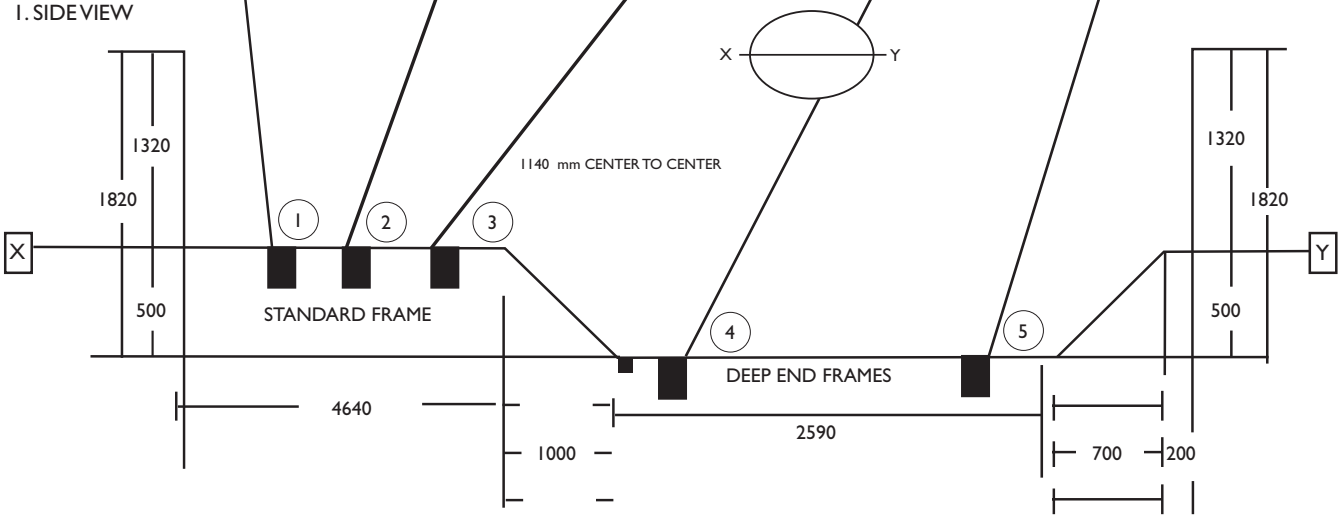
1. SIDE VIEW

2. END VIEW

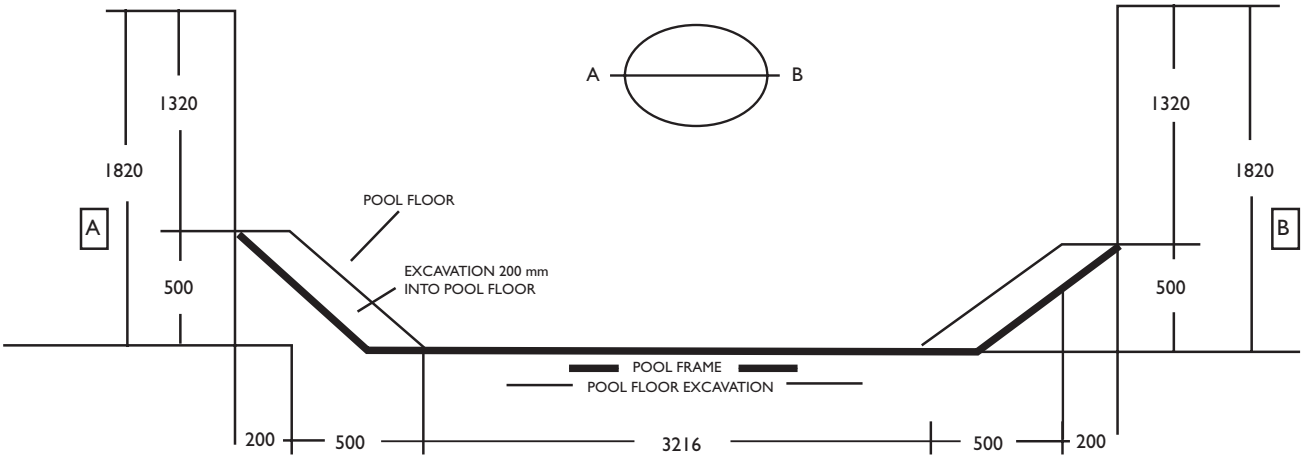




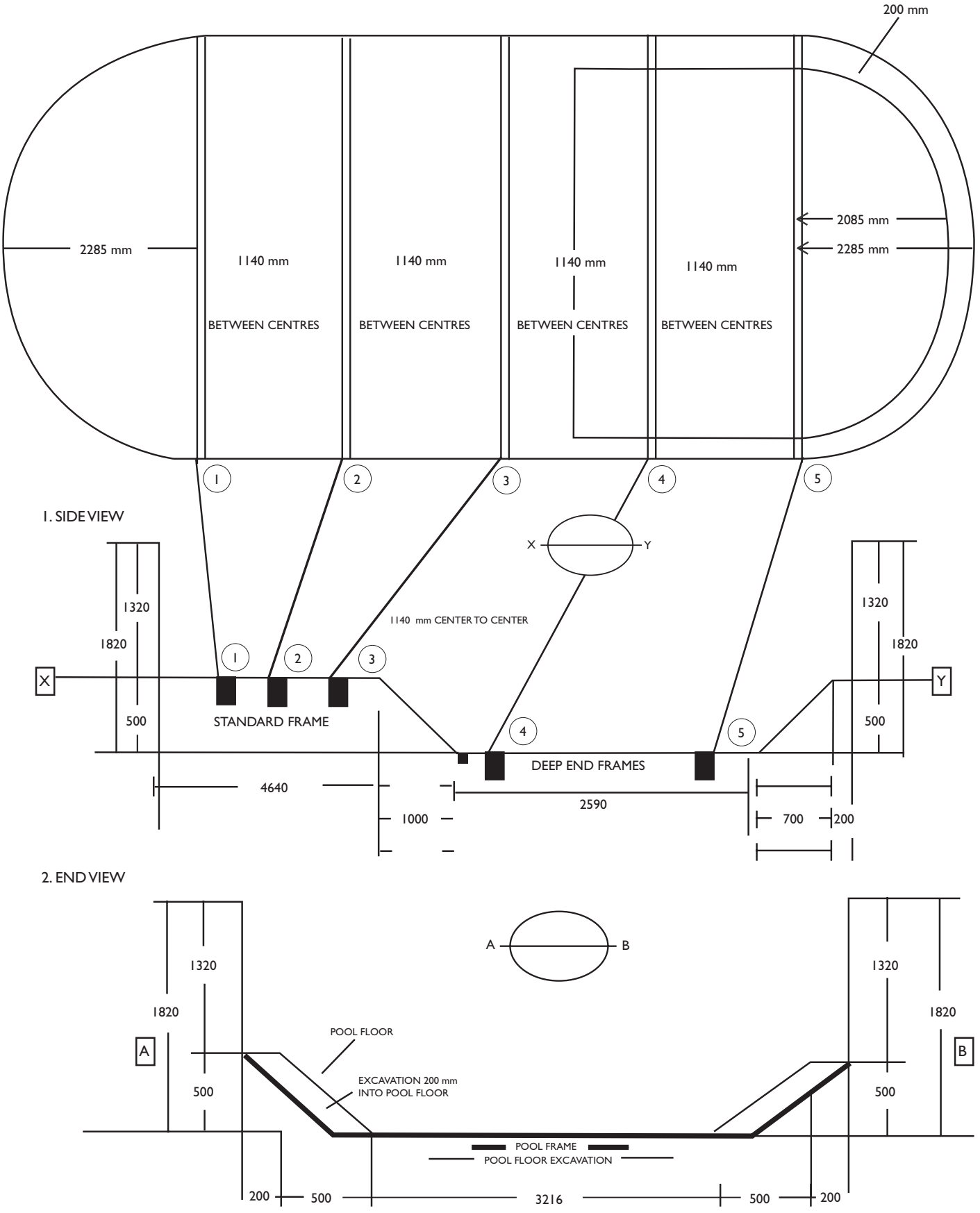
1. SIDE VIEW



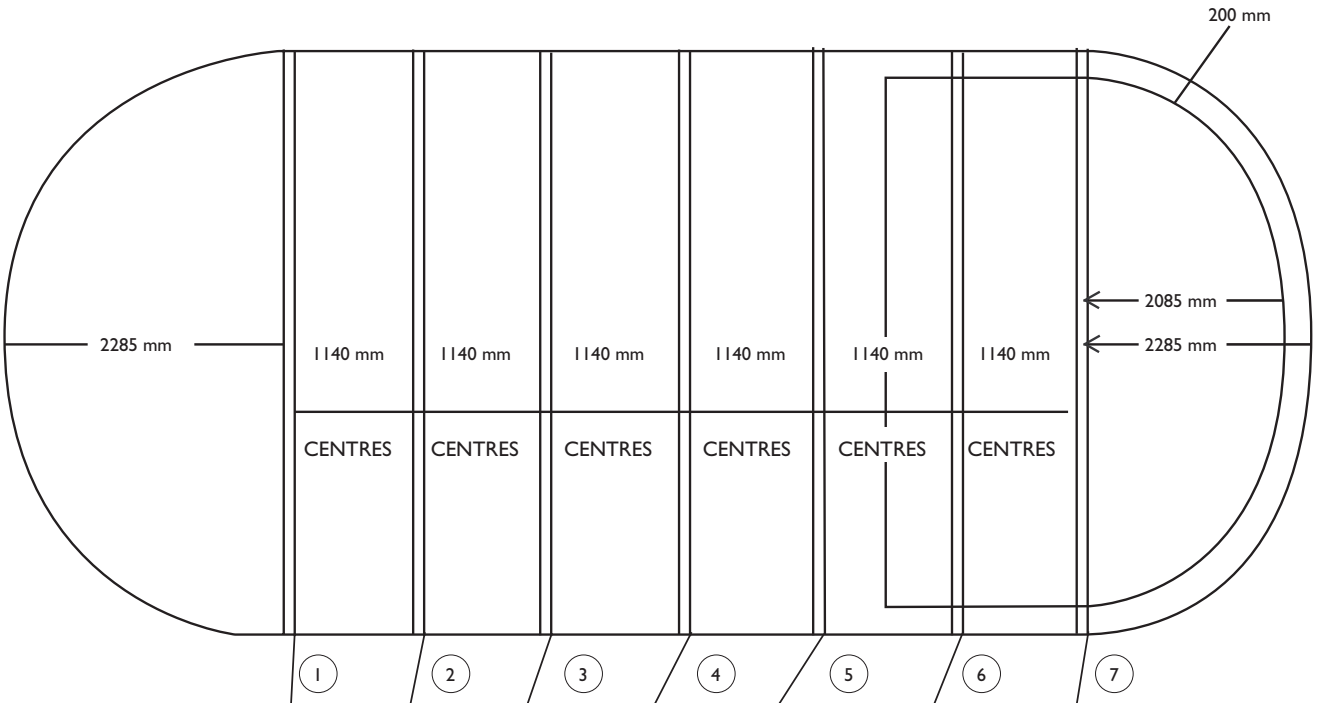
2. END VIEW



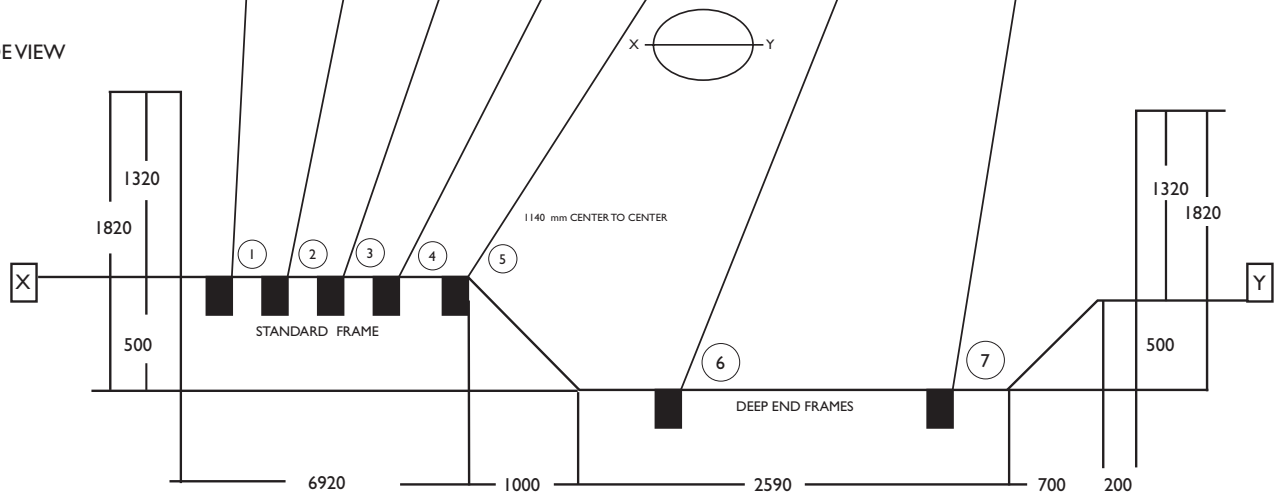
9.13 M X 4.57 M X 1.32 M NOOSA REEF DEEP END POOL CHANNEL POSITIONING



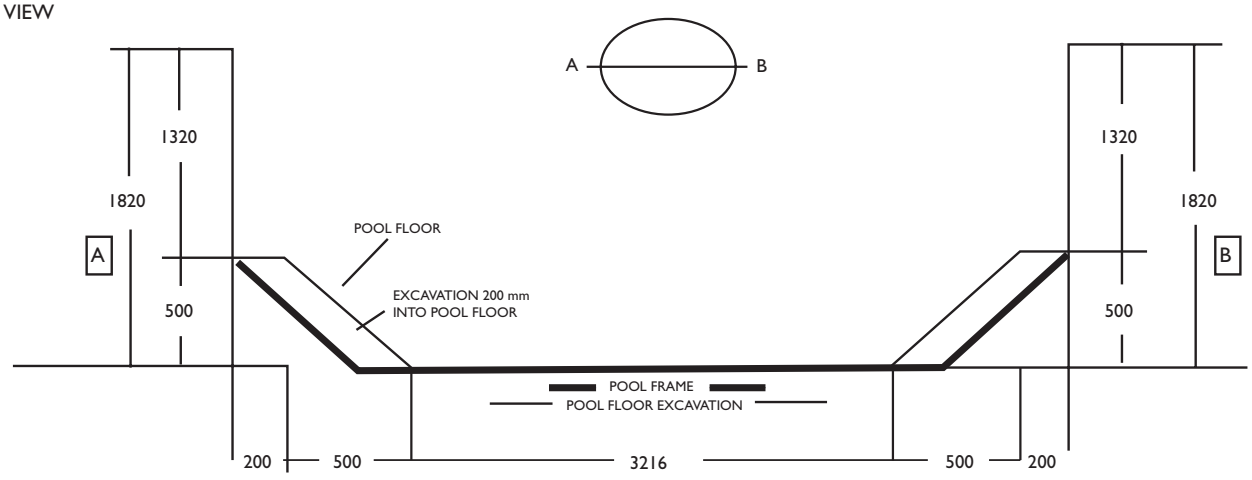
11.41 M X 4.57 M NOOSA REEF DEEP END POOL CHANNEL POSITIONING



1. SIDE VIEW



2. END VIEW



DEEP END POOLS

Note: All parts required for the size of pool you have purchased will be as per the parts list pages 6 & 7 of the instruction manual, except for the following which will change to the quantities as listed.

Parts	7.08 x 3.6	7.99 x 4.5	9.13 x 4.5	11.41 x 4.5
P. Post (P.Post R)	4	4	6	10
Joiner Female E (P160563)	4	4	6	10
Joiner Female C (P160562)		2	3	5
Joiner Male D (P160564)	4	4	6	10

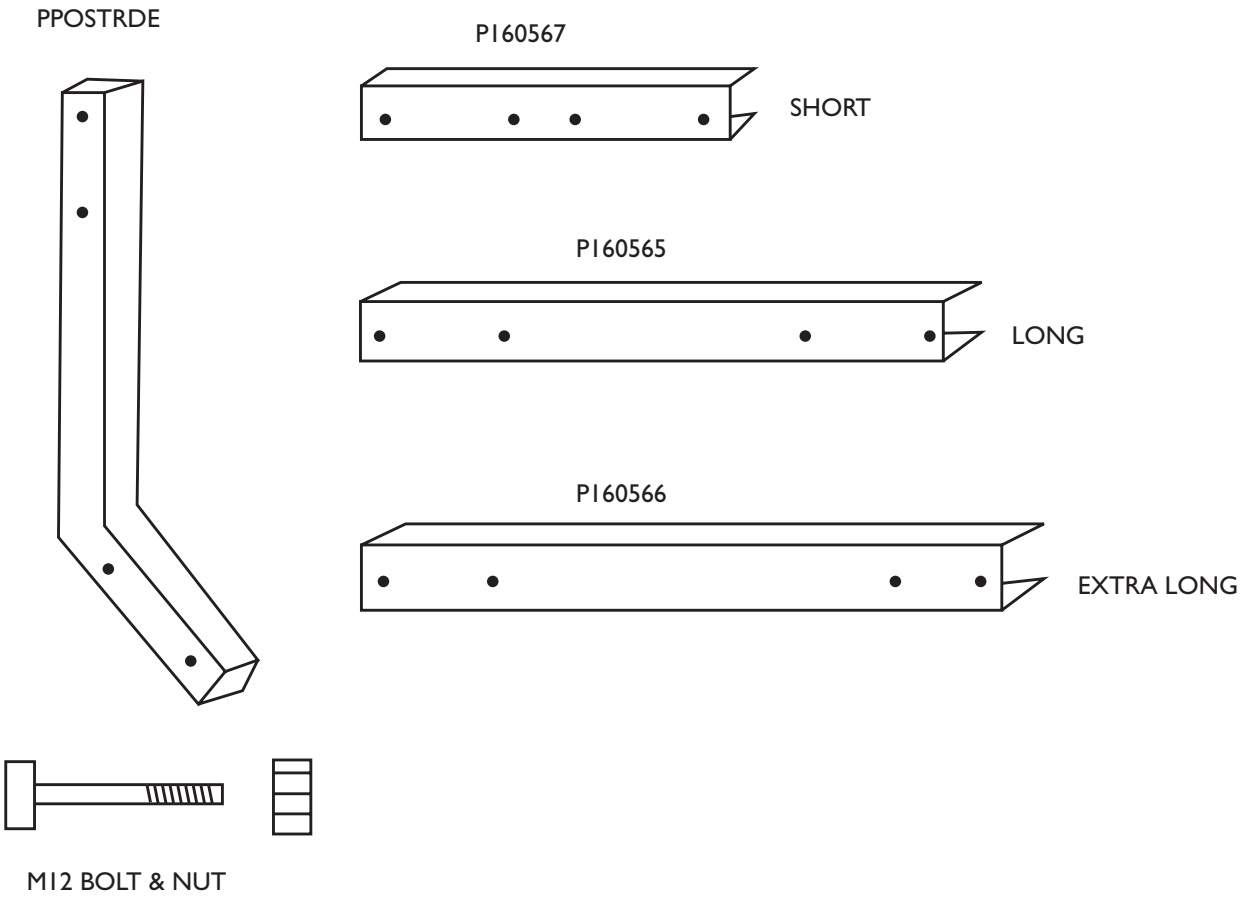
Additional parts to pages 6 & 7 required for deep end installation supplied with your pool.

Pool width	Name	Quantity	Part No.
3.6m	Deep End Post	8	PPOSTRDE
	Joiner Channel short	4	P160567
	Joiner Channel extra long	2	P160566
	M12 Bolt and Nut	16	
	P-Post RDE	4	
4.57m	Deep End Post	4	PPOSTRDE
	Joiner Channel short	4	P160567
	Joiner Channel long	2	P160565
	Joiner Channel extra long	2	P160566
	M12 Bolt and Nut		16
	P-Post RDE		4

DEEP END INSTRUCTION MANUAL SUPPLEMENT MUST BE USED IN CONJUNCTION WITH THE STANDARD NOOSA REEF OVAL INSTRUCTION MANUAL. THIS SUPPLEMENT ONLY COVERS THE FOLLOWING:

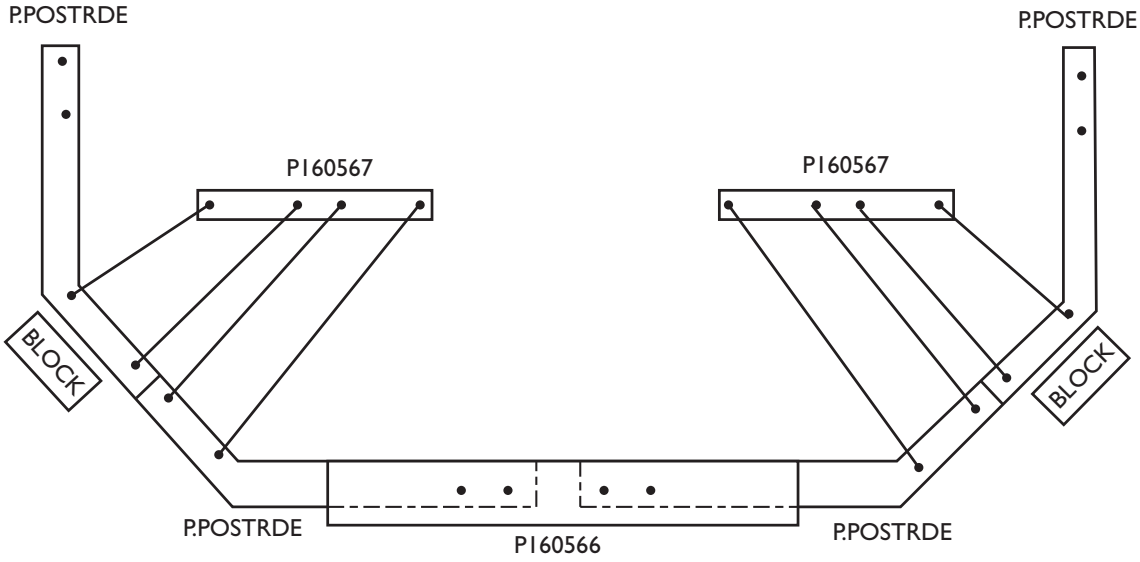
1. Deep end parts list
2. Deep end excavation plans
3. Deep end frame assembly

ALL OTHER ASPECTS OF THE INSTALLATION PROCESS ARE COVERED IN THE OVAL INSTRUCTION MANUAL.

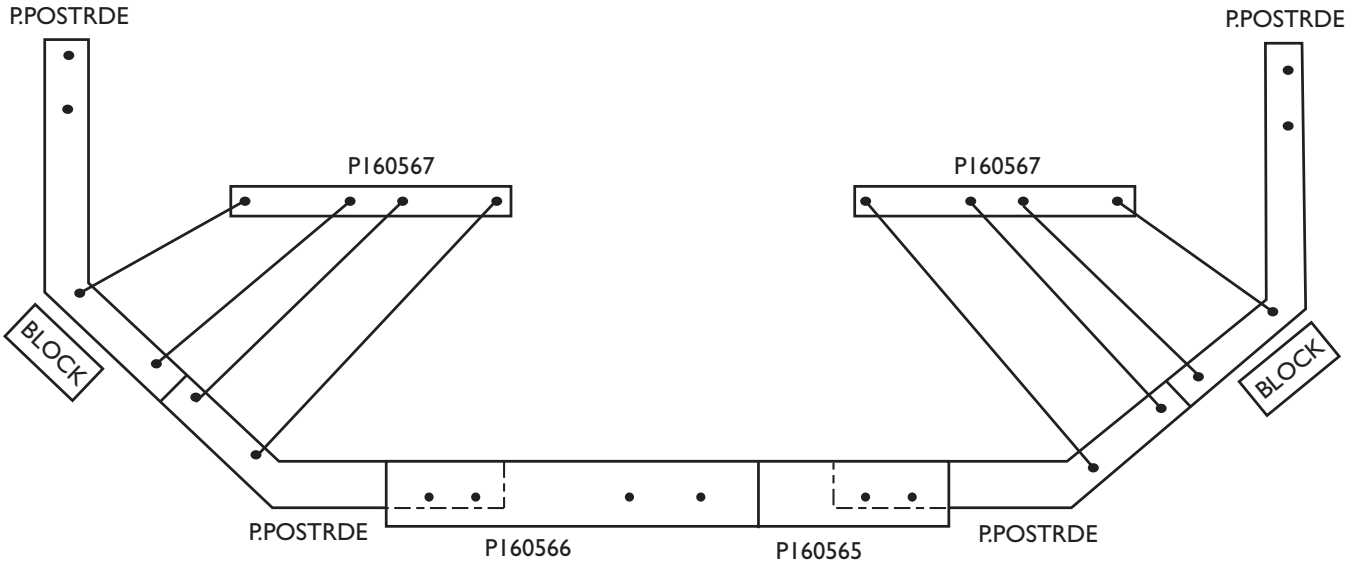


NOTE:
In order to correctly assemble channels, it is essential that the instructions in the manual are followed correctly

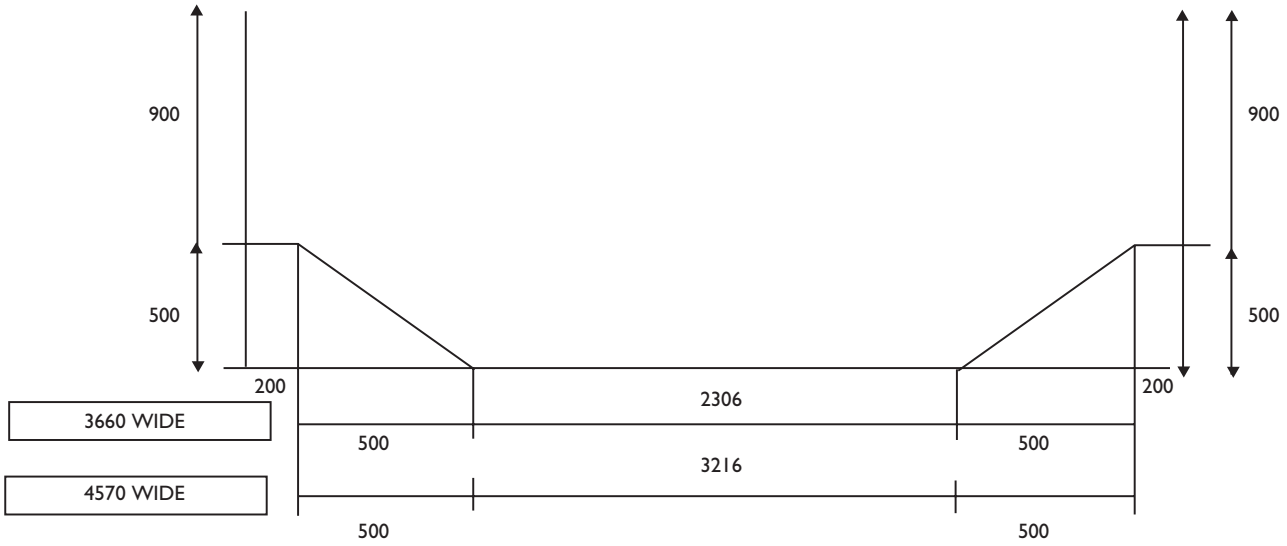
A0 3.66 M WIDE POOLS



B) 4.54 M WIDE POOLS



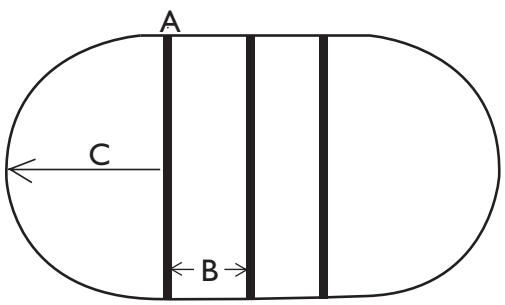
Standard frame assembly as per Oval pool manual



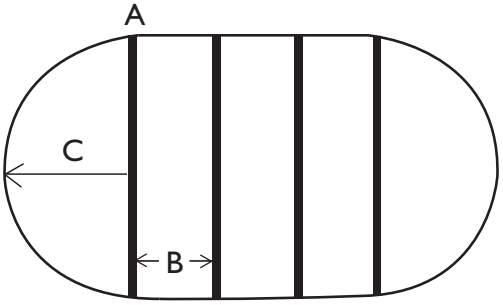
NOTE: Inside channel to channel measurement.

STEP 18. MARKING OUT END RADIUS

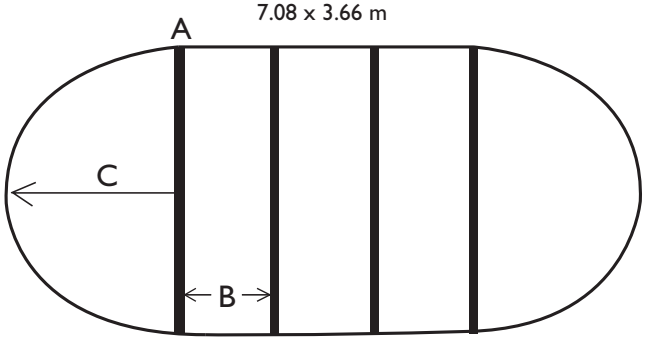
5.94 x 3.66 m



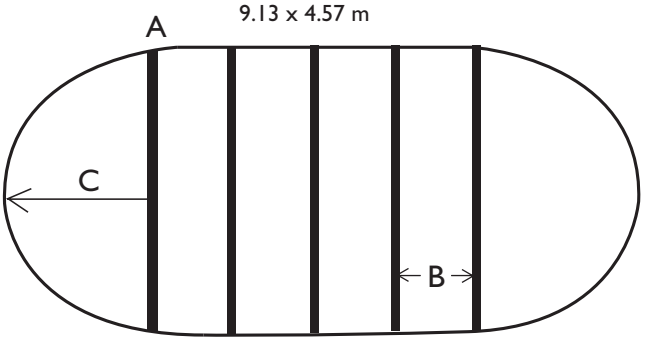
7.99 x 4.57 m



7.08 x 3.66 m



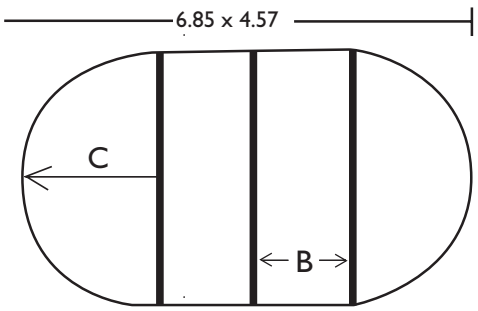
9.13 x 4.57 m



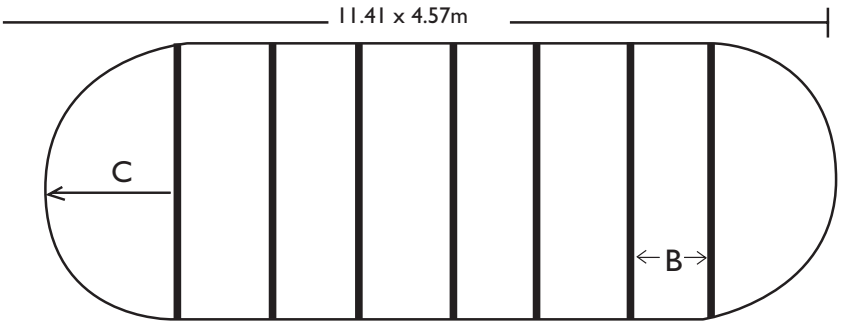
Inside post measurement: A= 3706 mm
B= 1140 mm centres
C= 1830 mm

Inside post measurement: A= 4616mm
B= 1140 mm centres
C= 2285 mm

6.85 x 4.57



11.41 x 4.57m



NOTE:

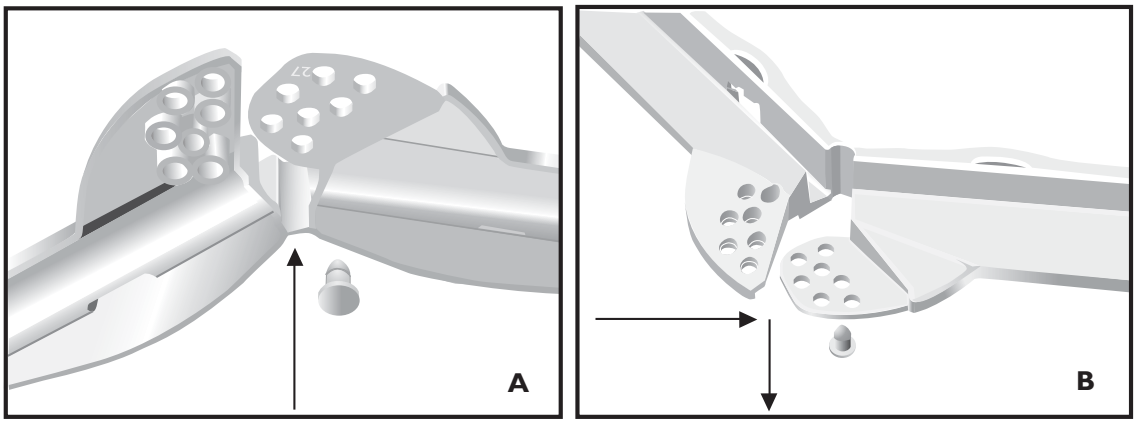
You will require two people to complete step 18.

3.66 Wide pools
Find the centre of A (point C) from the centre of the channel using a tape measure to mark the arc 1830 mm with screwdriver.

4.57 Wide pools
Find the centre of A (point C) from the centre of the channel using a tape measure to mark the arc 2285 mm with a screwdriver.

STEP 19.

NOTE: Only the end radius wall channels are adjustable and have indexing pins. The intermediate wall channels side sections are not adjustable and are used as the straight sides



STEP 20.

You must now assemble the wall channels. This is a three step process.

STEP 1: Detach the indexing pins attached to the wall channel.

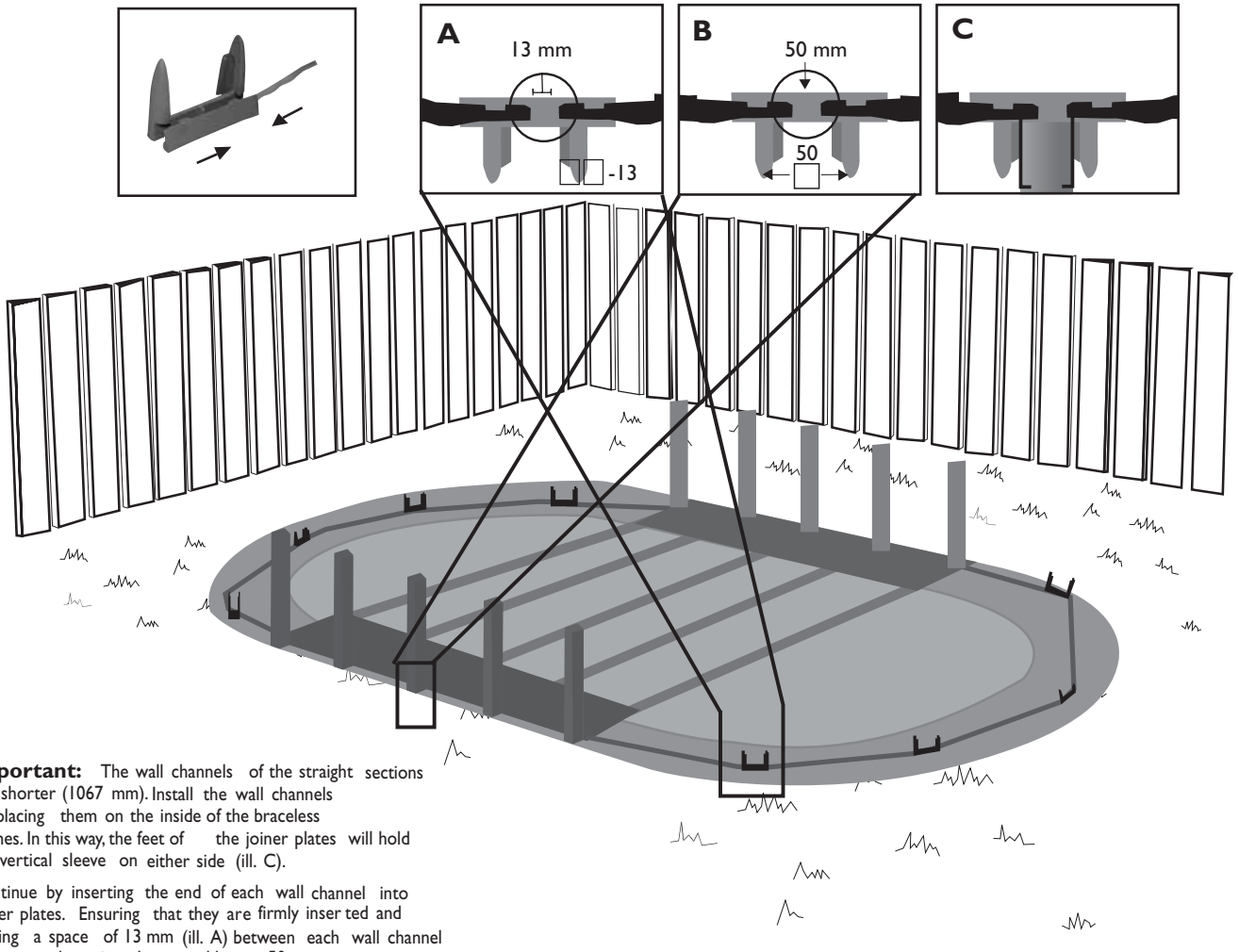
INDEX:

Hole (12) = 3.6mt Pools (w)

Hole (15) = 4.5mt Pools (w)

STEP 2: Identify on the reverse side of the wall channel (while loooking underneath the wall channel) the approximate radius of your pool and insert the indexing pin into the corresponding hole - refer to illustration "A" above.

STEP 3: Turn the wall channel right side up and align once again the pin with the corresponding hole. Press down the wall channel onto the pin to complete the assembly - refer to illustration "B" above. Repeat these steps for each wall channel and indexing system.



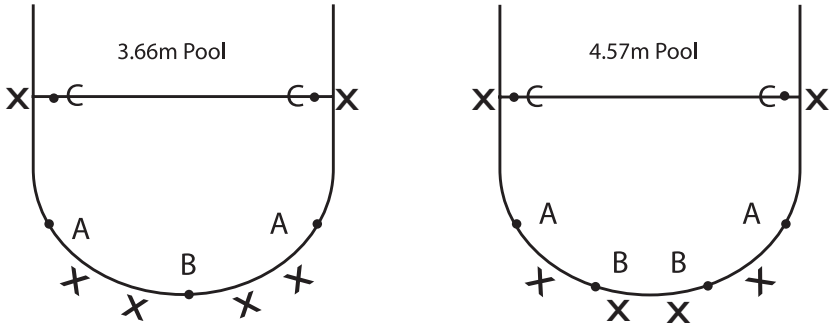
Important: The wall channels of the straight sections are shorter (1067 mm). Install the wall channels by placing them on the inside of the braceless frames. In this way, the feet of the joiner plates will hold the vertical sleeve on either side (ill. C).

Continue by inserting the end of each wall channel into joiner plates. Ensuring that they are firmly inser ted and leaving a space of 13 mm (ill. A) between each wall channel of the round sections. Insert and leave a 50 mm space on the straight side (ill.B).

Note: The wall channels should be positioned on the mark of the radius

STEP 21.

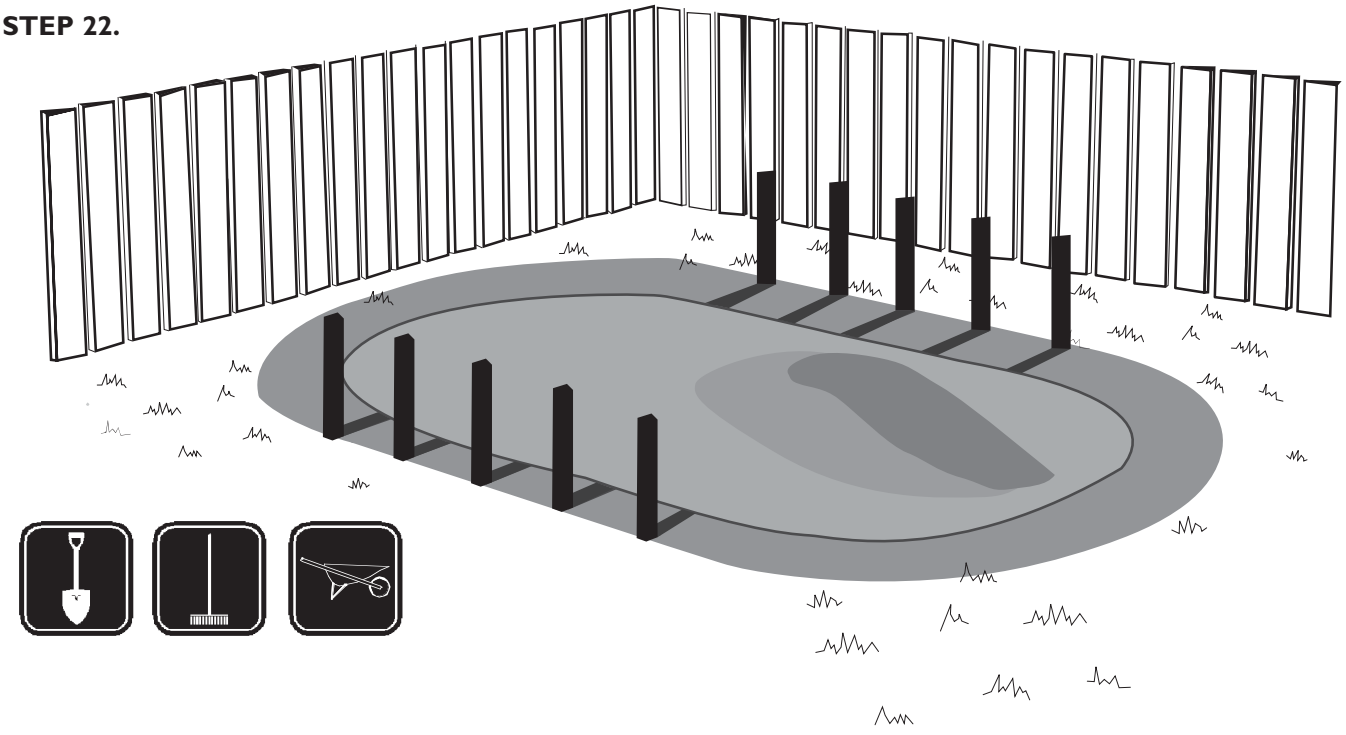
Now that the wall channels have been positioned, it is necessary to peg the channels into place with steel pegs, to ensure that the radius does not move out of place during installation of the wall and filling of the pool.



4 steel pegs (x)

6 steel pegs (x)

STEP 22.



Model Size	2012 3.66 x 5.94 m	2412 3.66 x 7.08 m	2315 4.57 x 6.85 m	2715 4.57 x 7.99 m	3015 4.57 x 9.13 m	3815 4.57 x 11.41 m
Approx sand required	1.8 cubic m	2.0 cubic m	2.2 cubic m	2.5 cubic m	2.7 cubic m	2.9 cubic m

PLACE SAND

Place the required amount of builders Fatty sand in the centre of the excavated area. The table above gives the required amount of sand. Do not spread the sand at this stage. Ensure that there is no sand within approx 900mm from pool edge as it will be in the way of wall installation later on.

NOTE: Builders Fatty sand is the only sand recommended as a base for the pool. Any other sand may damage the liner.

STEP 23.

SIDE POST

Slip the resin uprights (with the holes in the bottom) over all the straight section posts. The vertical sleeve is properly positioned when the joiner plate is inserted into the notch at the lower end of the sleeve.

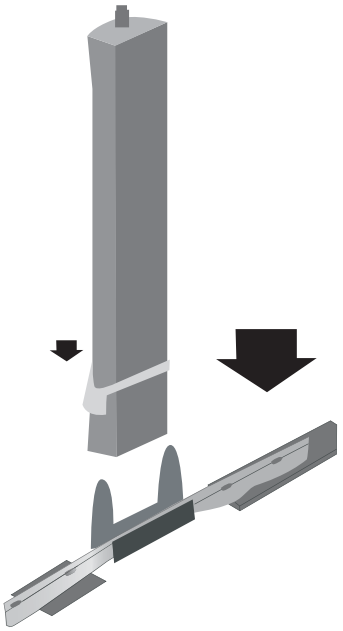
Model Size	2012 3.66 x 5.94 m	2412 3.66 x 7.08 m	2315 4.57 x 6.85 m	2715 4.57 x 7.99 m	3015 4.57 x 9.13 m	3815 4.57 x 11.41 m
B2 Upright	6	8	6	8	10	14

END POST

Important: The resin uprights used in the round sections (i.e. B1) are different than those used in the straight sections (i.e. B2) of the pool. Please note that no base crowns are to be installed on upights B2 in the straight sections of the pool.

Before you commence to install the radius vertical you will need to determine where your skimmer is to be positioned. Refer step 24.

Put your first resin upright in place on this joiner plate and begin installing the wall. The upright is properly positioned when the joiner plate is inserted into the notch at the lower end of the straight. To make it easier to attach the upright to the joiner plate, slant the straight slightly towards the interior of the pool while inserting it. This upright will serve as your starting point as you install the wall.
Temporarily put the top decks to hold the end verticals in place while installing the walls.

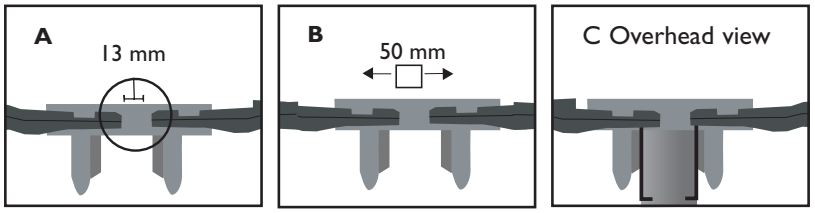


Model Size	2012 3.66 x 5.94 m	2412 3.66 x 7.08 m	2315 4.57 x 6.85 m	2715 4.57 x 7.99 m	3015 4.57 x 9.13 m	3815 4.57 x 11.41 m
B1 Upright	6	6	8	8	8	8

STEP 24.

IMPORTANT NOTICE

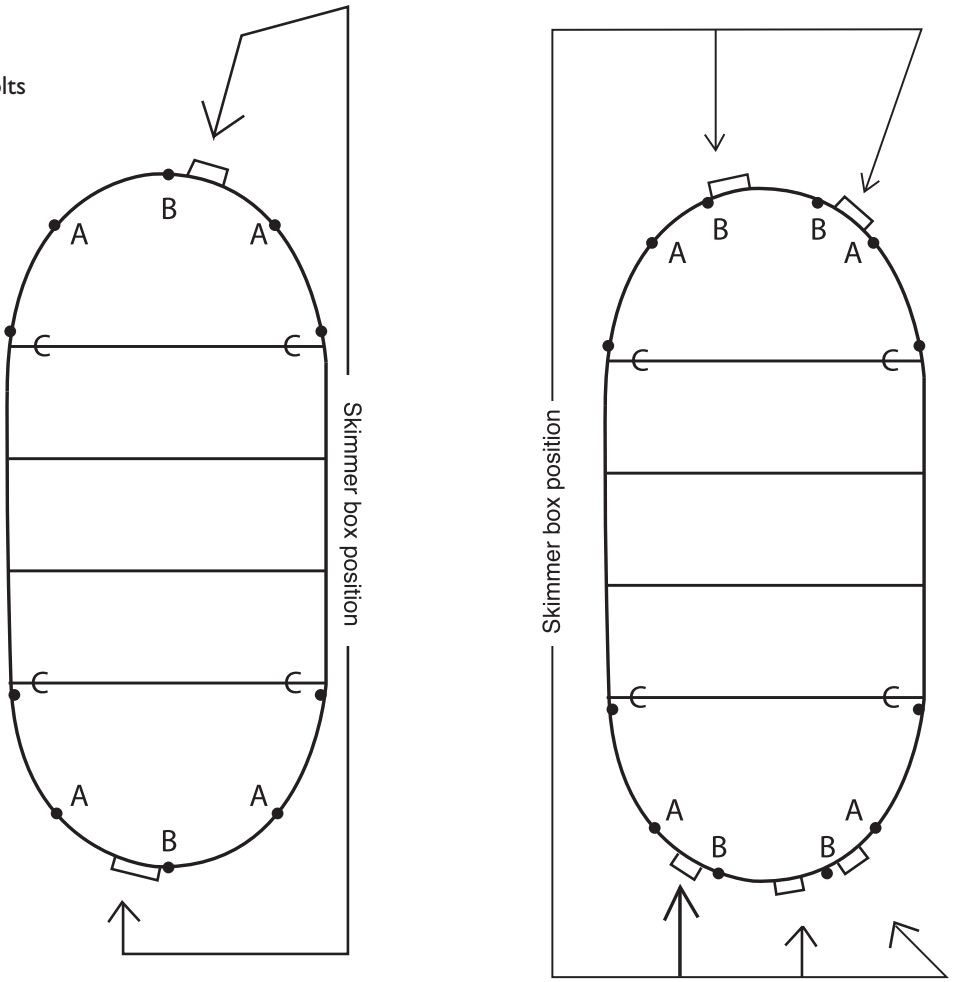
Before you start to install the pool wall it is important that you take notice of where the skimmer box is to be installed (see diagram below). Due to the fact that the wall joint must be located in a defined position on the oval end of the pool, it is at one of these points that you should start to unroll the wall. There are two nuts/bolts/washers located approximately 10mm from the bottom of the wall that will not fit into the bottom wall channel. These bolts need to be located in one end of the position(s) marked (B) where the bottom wall channels are at the maximum spacing in the joiner plate and hence behind a vertical. Failure to do this may result in damage to the pool wall.(Refer to diagram below for positions B)



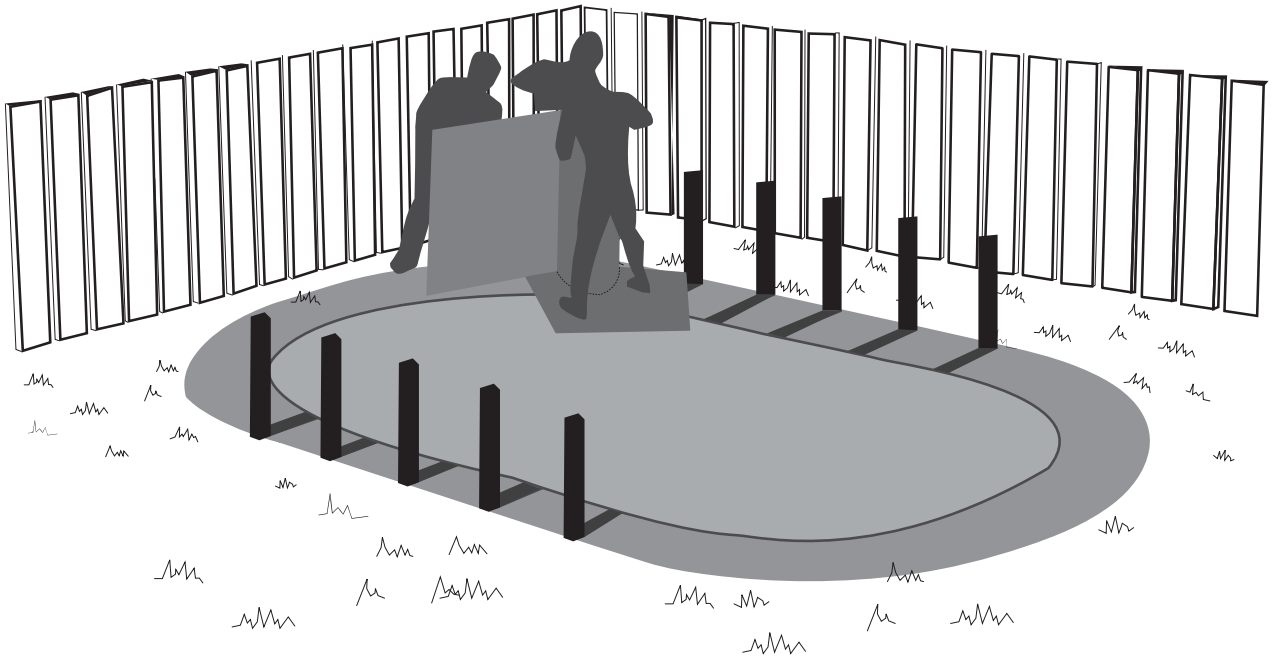
3.6m Wide Pools
5.94m x 3.66m and 7.08 x 3.66m Pools

4.5m Wide Pools
7.99 x 4.57m, 9.13 x 4.57m
6.85 x 4.57m and 11.41 x 4.57m pools.

Positions marked B.
are suitable for wall bolts



STEP 25.



You now have to install the pool wall. A minimum of two or three people are required to install the wall and there should be no wind at the time.

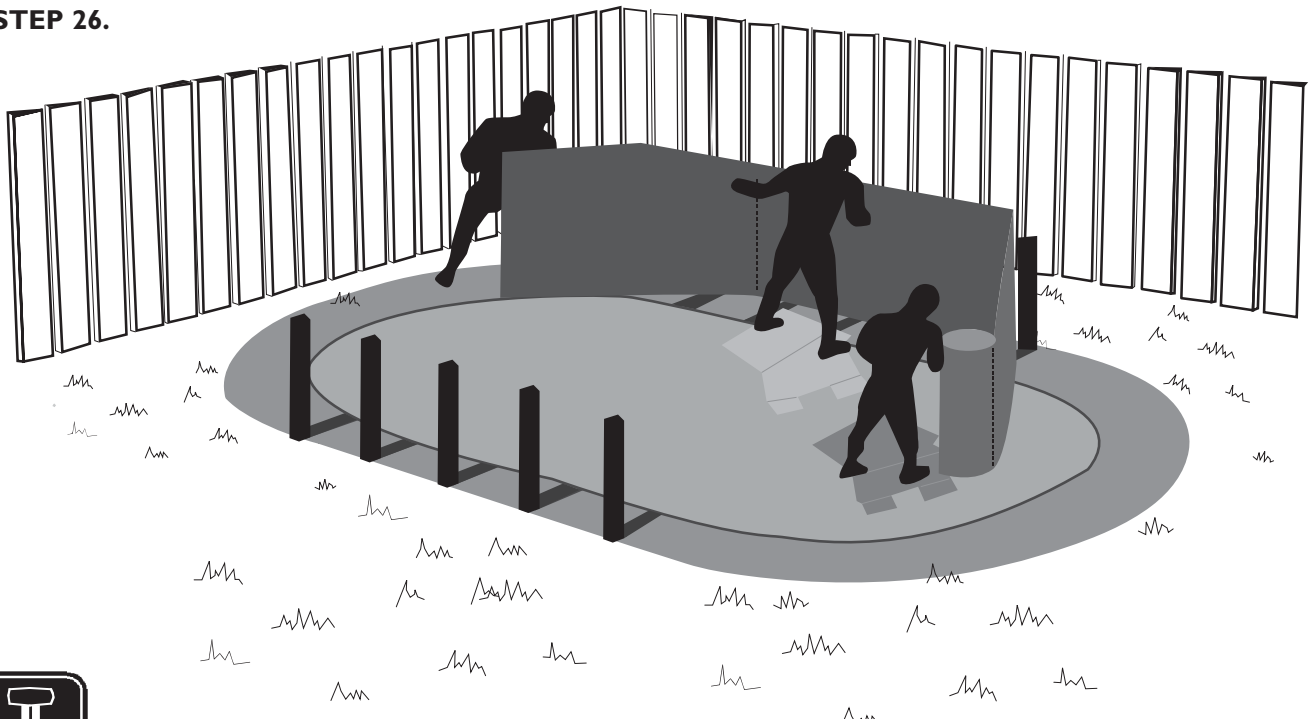
Further more, we suggest that you use the packaging or 60 cm x 60 cm (2' x 2') wooden board to help manoeuvre the wall.

Insert the wall into the wall channel, starting from the centre of one of the joiner plates. Make sure the skimmer hole is at the place where you want to put the filtration system.

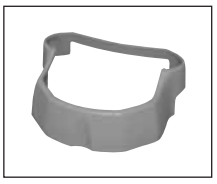
Important:
The skimmer and water return holes are located at the top of the unrolled start of the wall, and it is essential that they should be located in a round section of the pool.

Materials:
- Cardboard packaging or a 60 cm x 60 cm (2' x 2') wooden board.

STEP 26.



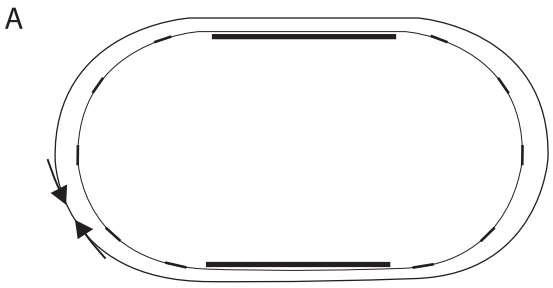
As you unroll the wall, you must install the uprights. However do not forget to install the base crowns only on the end posts.

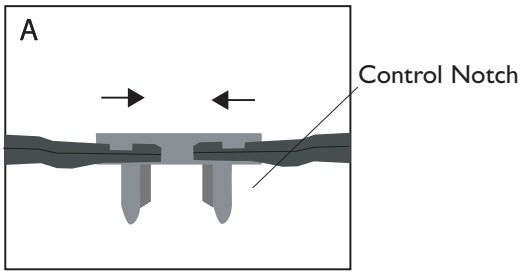


STEP 27.

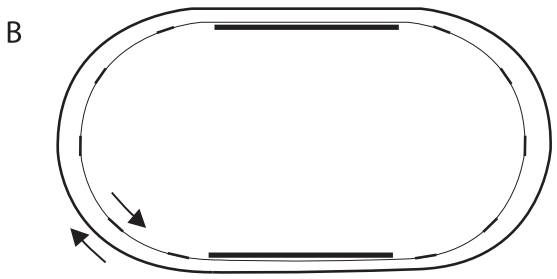
To ensure greater stability, we recommend that you place the top deck on the uprights for sides and ends as a temporary measure while unrolling the wall.

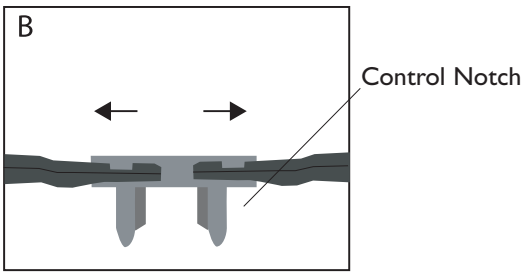
Wall Short





Wall Long





Now the wall should be completely unfolded.

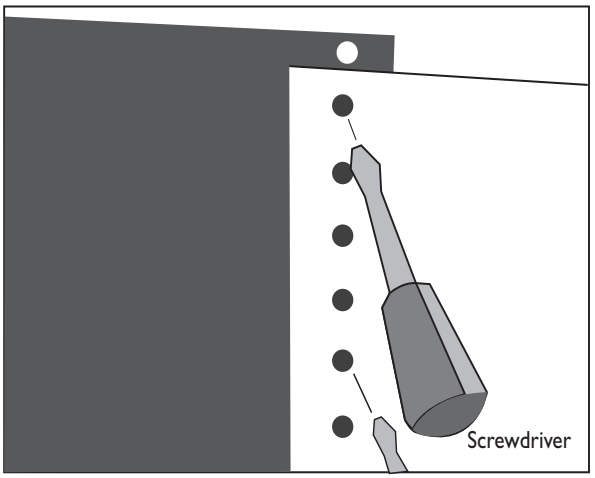
1) If the wall joints align perfectly, proceed directly to Step 28.

2) If your wall appears to be too short, make sure that the wall radius channels are fully inserted into radius each joiner plate (A).

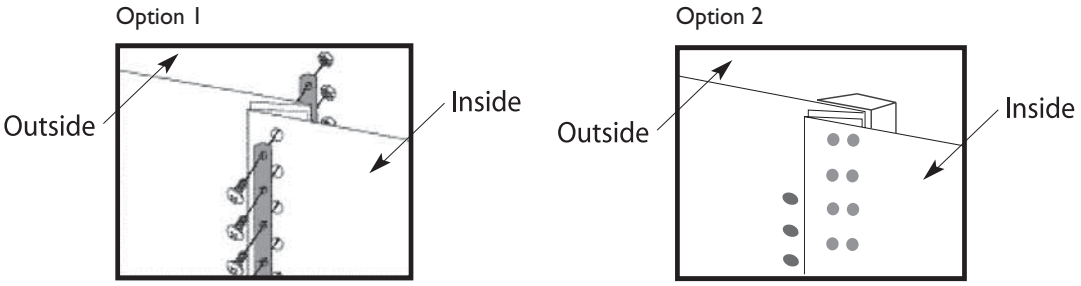
3) If the wall appears to be too long, re-adjust the wall channels so that they are at a slight distance from the control notch in each joiner plate (B).

Under no circumstances should the wall channels come out of the retaining grooves of the joiner plates.

STEP 28.

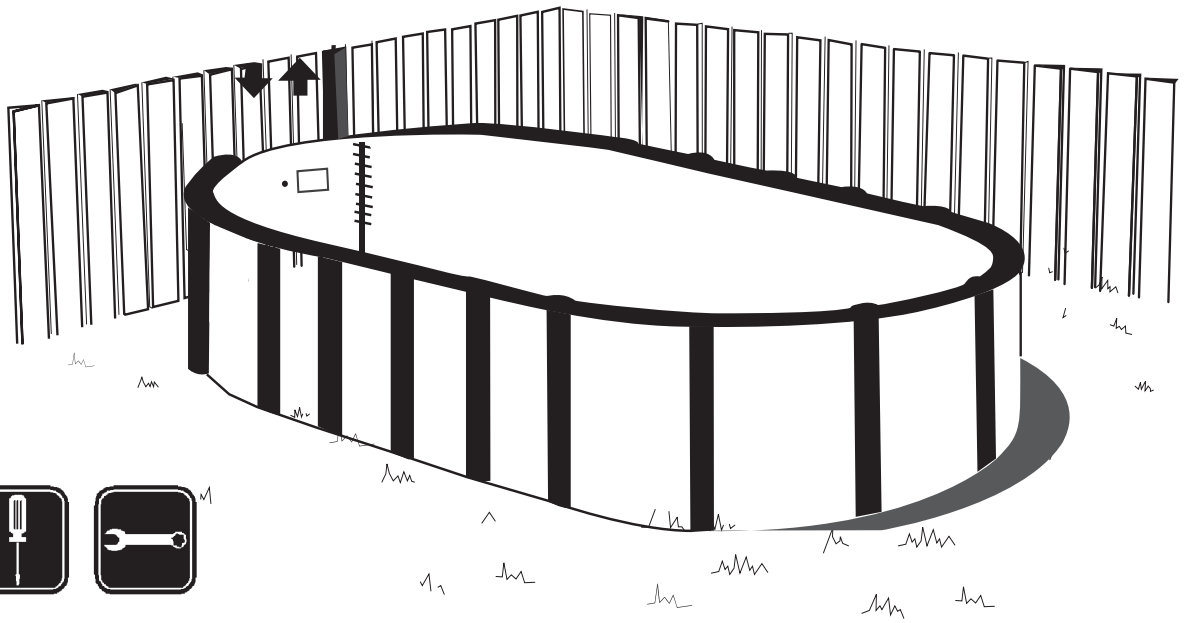


When both ends of the wall are aligned, use two or three phillips head screwdrivers, starting at the bottom of the wall, to keep the wall aligned until you have installed the bolts.



STEP 29.

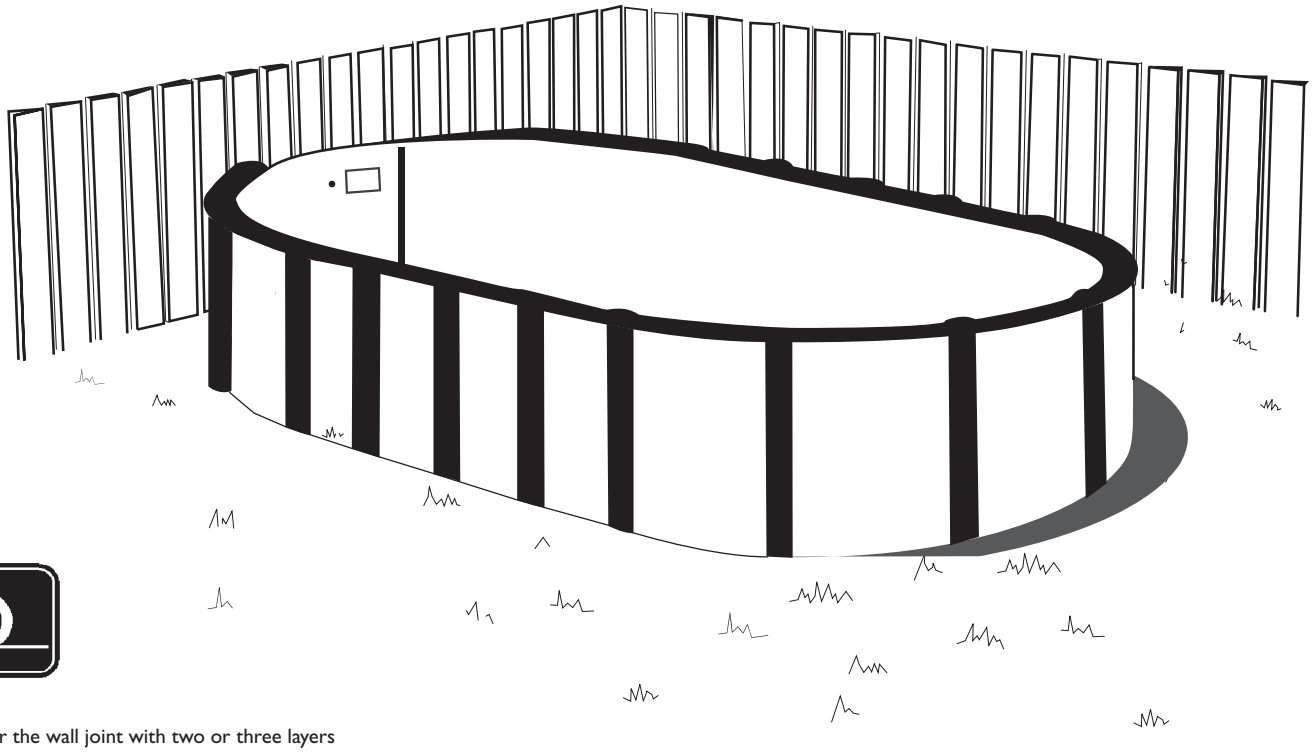
Assemble the 3/8" x 1/4" bolts, 1/4" nuts and 1/4" washers into the bolt hole provided and firmly tighten. It is important to have the washers and nuts on the outside of the pool with the bolt head on the inside. Once this has been done, remove any screwdriver burrs from the wall screws with a file. Cover the bolt heads from top to bottom with duct tape.



Remove the resin upright located at the wall joint using a screwdriver. To fasten the wall joint, it is very important to use the washers provided. Tighten the bolt heads on the inside of the pool and the nuts and washers on the outside.

Ensure that all bolts and hole are used (except as mention in step 24). Use the bolts provided with the wall.
Once the wall joint has completely bolted, replace the last resin upright and top deck, without forgeting the base crown.

STEP 30.



Cover the wall joint with two or three layers of duct tape. Make sure to cover the bolt heads so there is no sharp edges that can damage the liner. File any bumps or sharp edges to prevent damaging the liner.

STEP 31.

SPREADING AND LEVELLING THE SAND

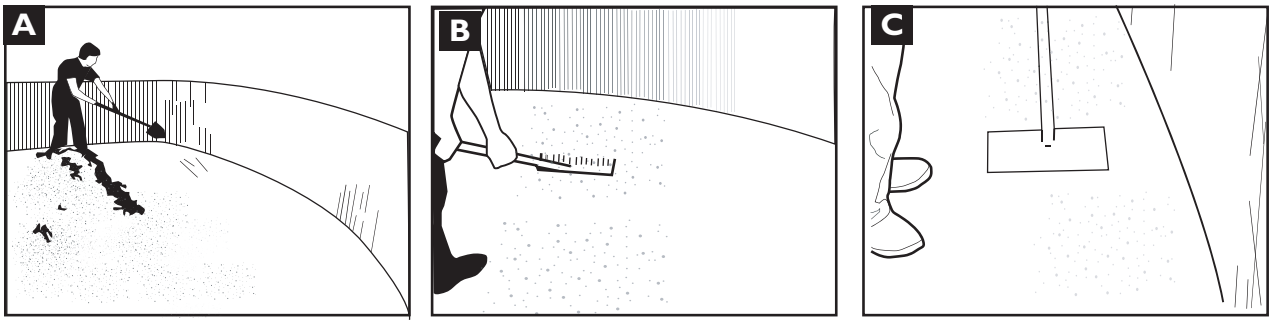
Using a tape measure and permanent marking pen mark a line around the inside perimeter of the pool 150mm up from the bottom edge of the wall.

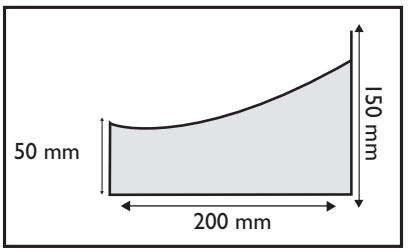
b. Use the wooden screed (2m) to level the sand before rolling approx 75mm deep (50mm after rolling)

c. Build an even coving of sand around the wall of the pool approximately 200mm high + compact tightly (150mm after compacting) up to the line around the inside perimeter of the pool.

NOTE: The coving is critical to stop the liner from going under the wall when filled with water. This will be the finished compact level of the sand coving.

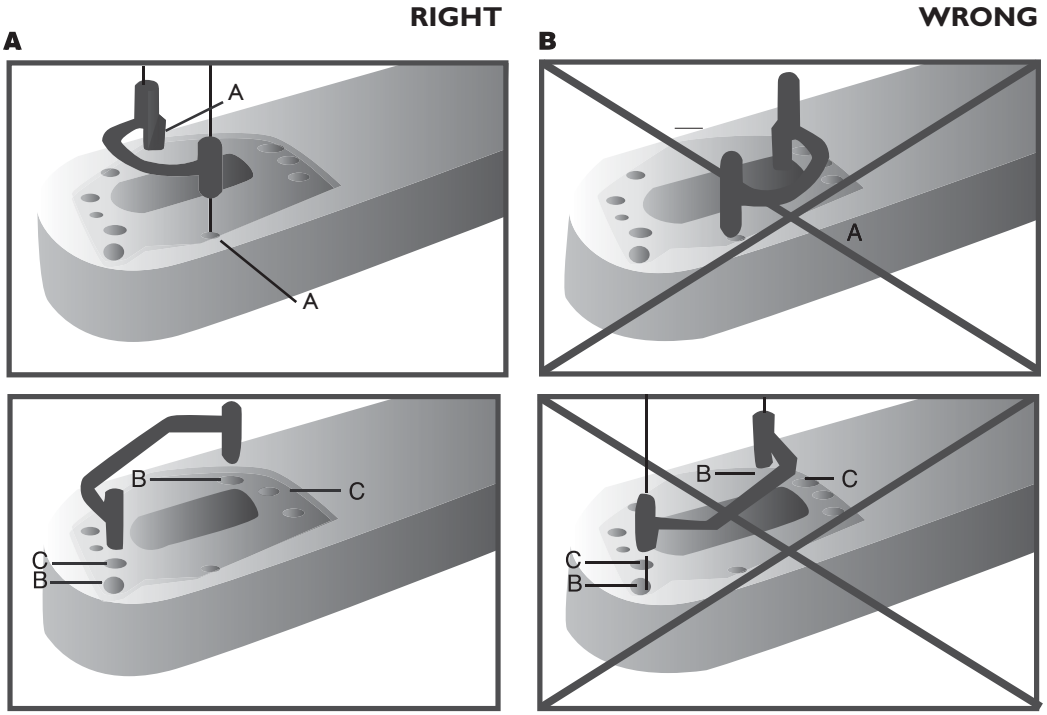
IMPORTANT SAND SHOULD BE DAMP BUT NOT WET TO COMPACT THE SAND CORRECTLY.





Pool Wall Coving

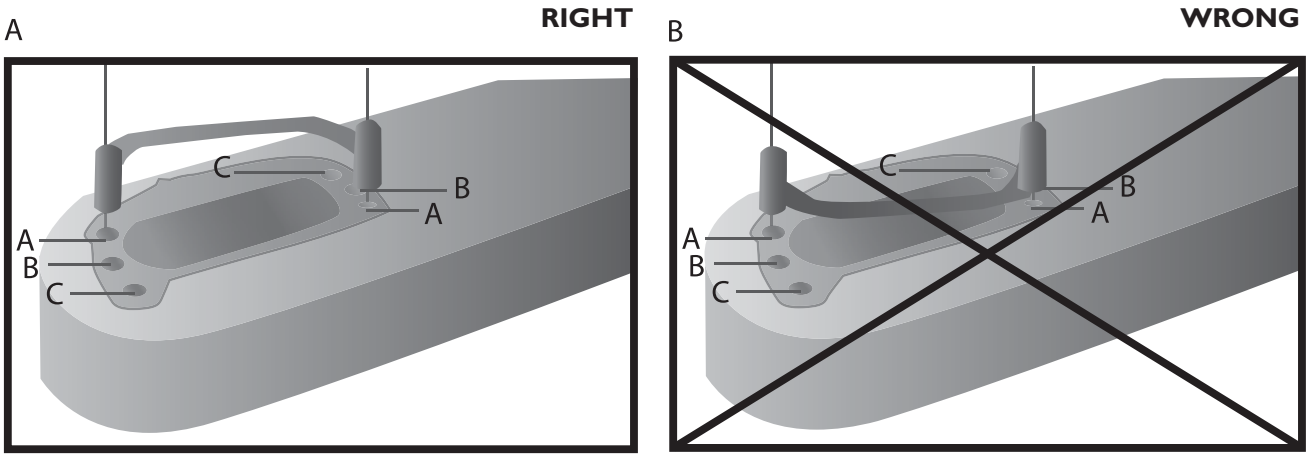
STEP 32.



3.65m x 7.08m; 3.65m x5.94m;
4.57m x 6.85m; 4.57m x11.41m

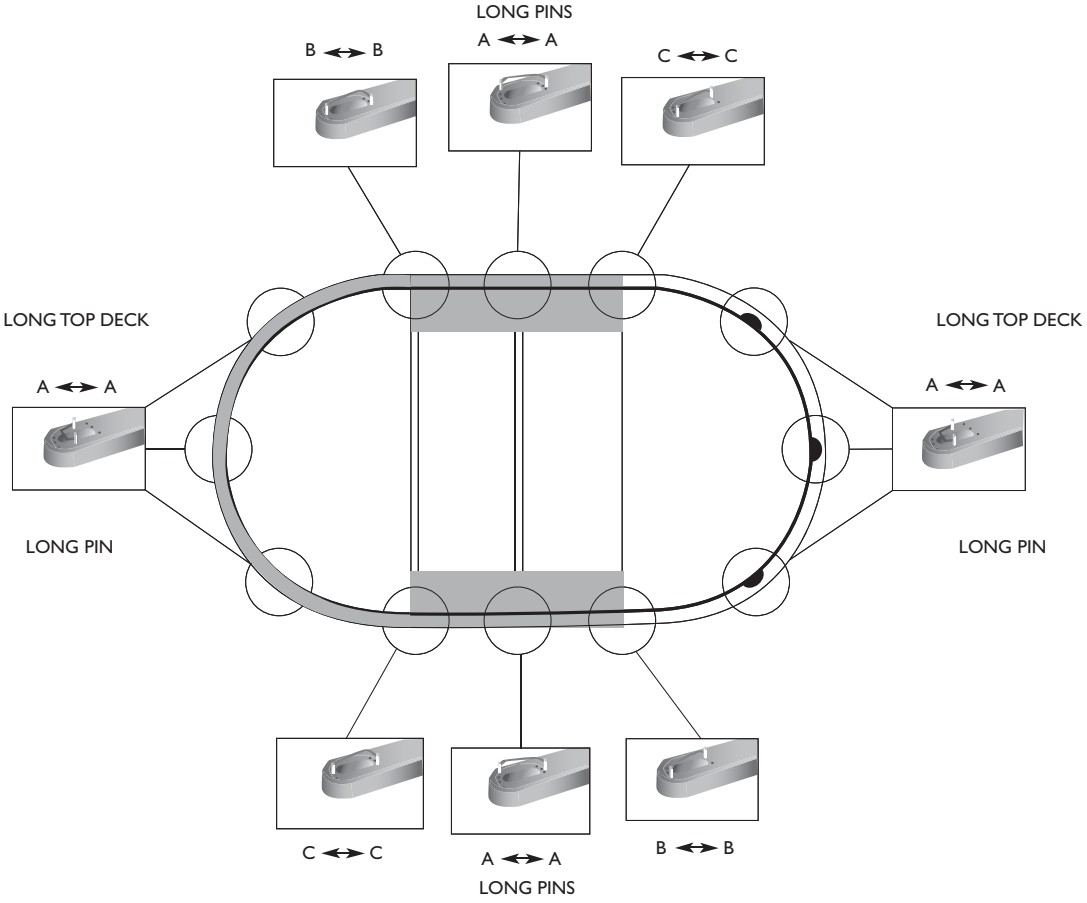
4.57m x 7.99m; 4.57m x 9.13m;

Before you begin installing the liner, you have to insert the pins into the appropriate anchoring slots of the top deck index system. Please see illustrations for the correct pin location for the size of the pool you are assembling on the next pages to determine which anchoring slots match the dimensions of your pool. **Important:** Make sure that you insert the pin in the right direction as illustrated above.

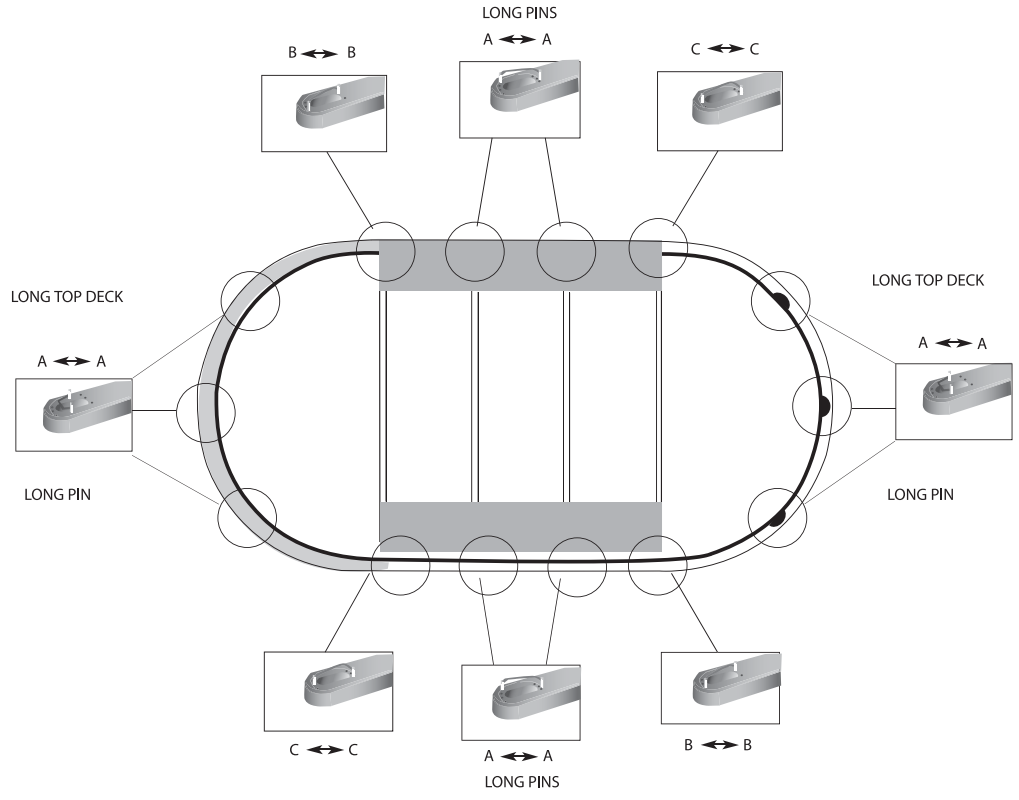


To position the pin in the appropriate anchoring slots, refer to the next three pages (Pages 32, 33, 34).

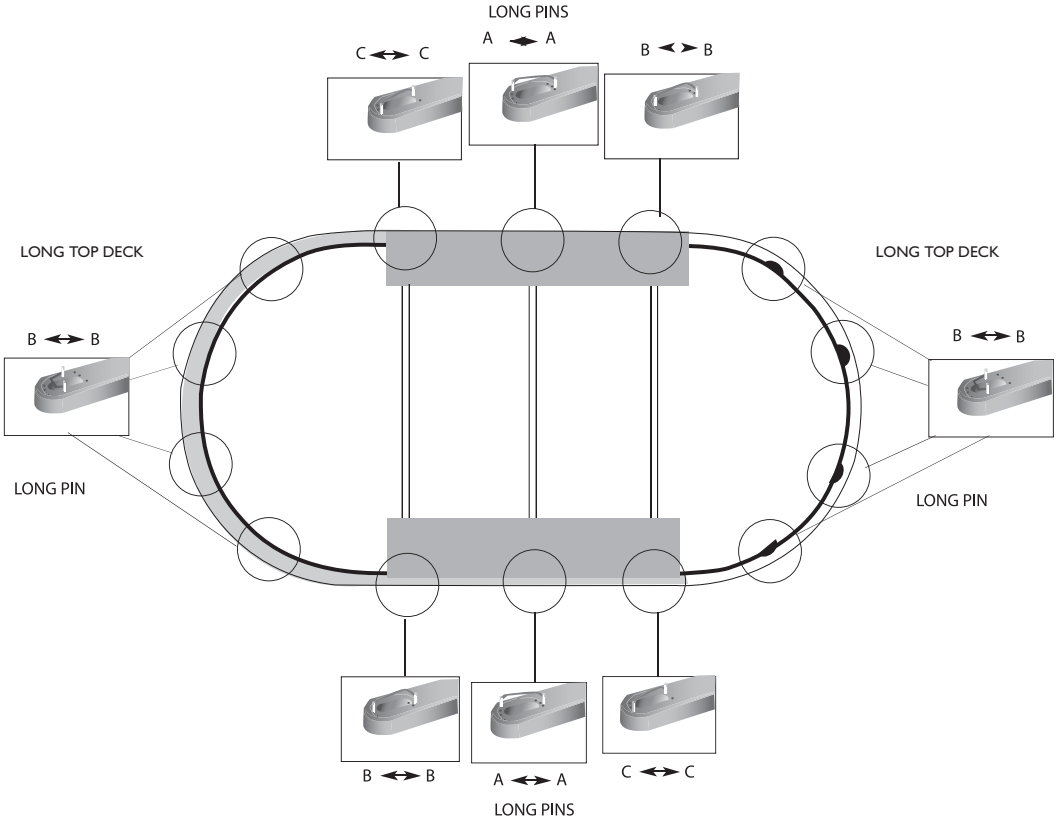
5.94m x 3.66m



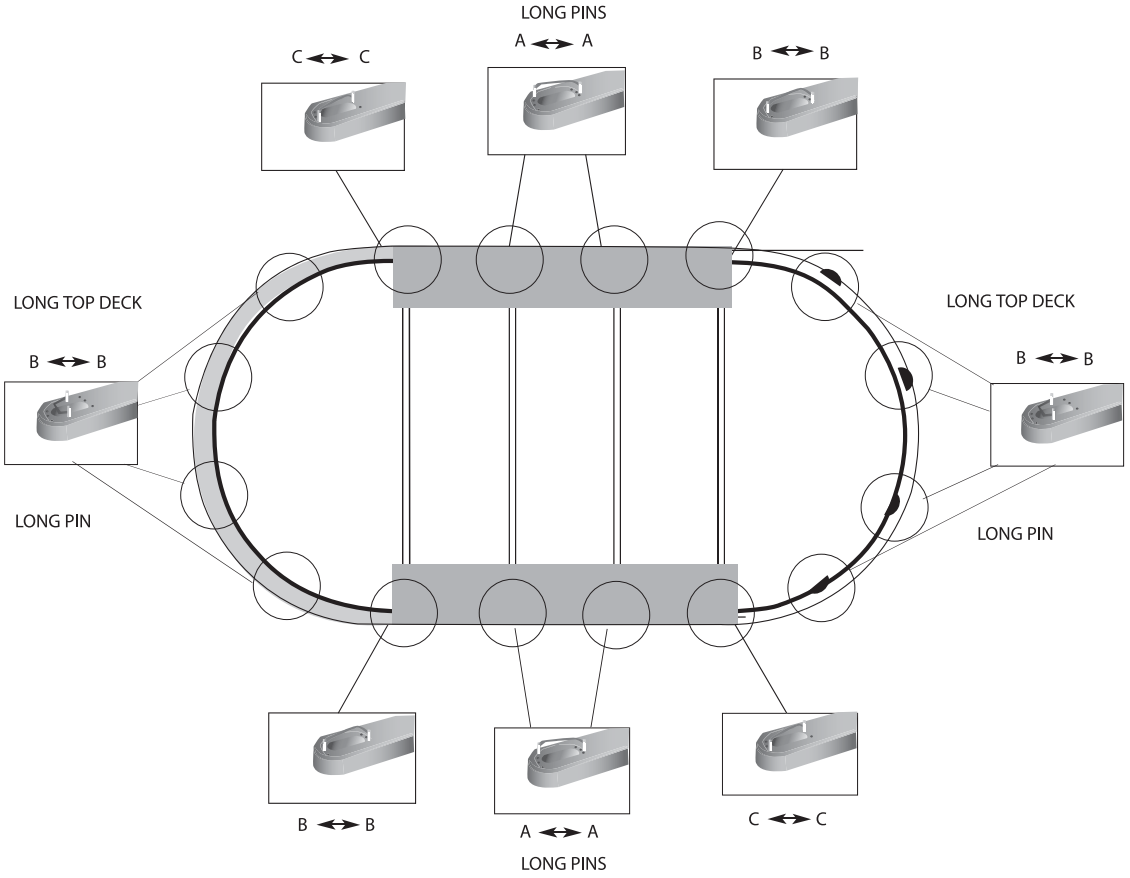
7.08m x 3.66m



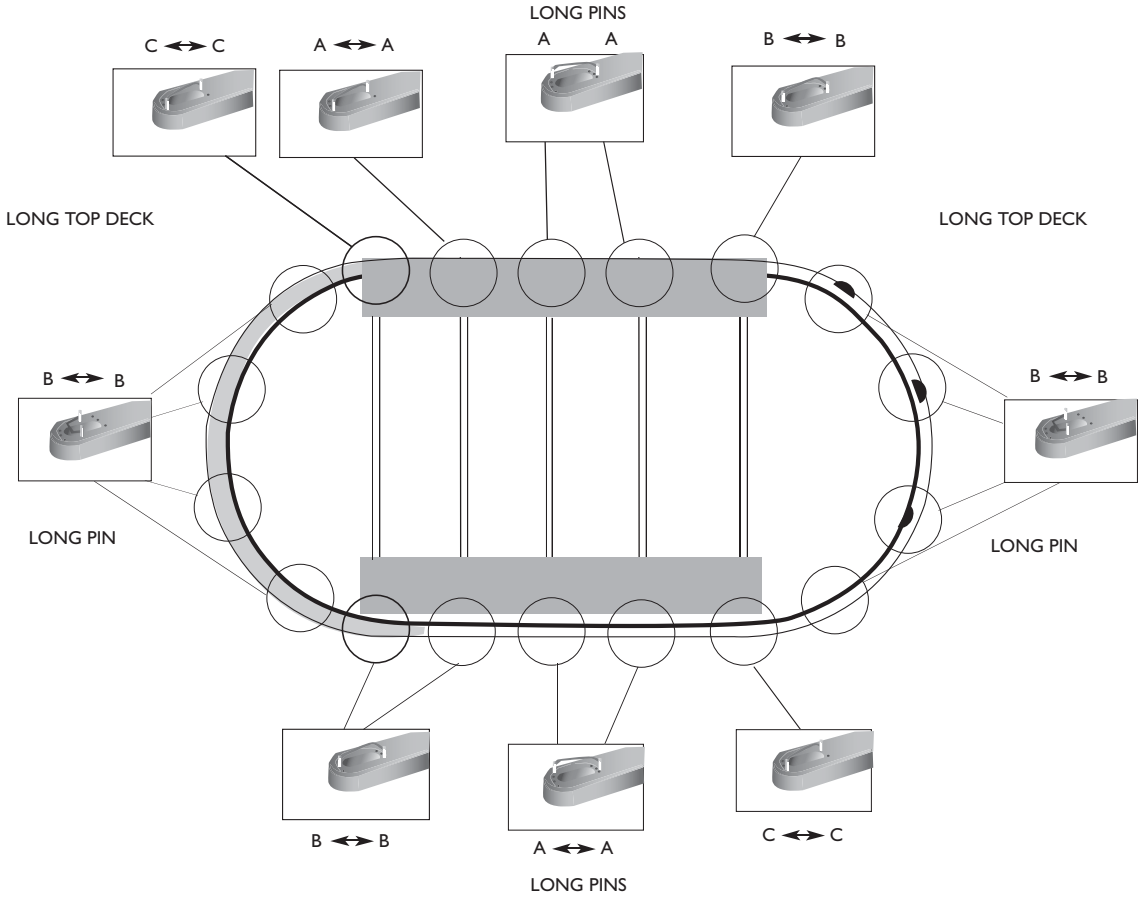
6.85m x 4.57m



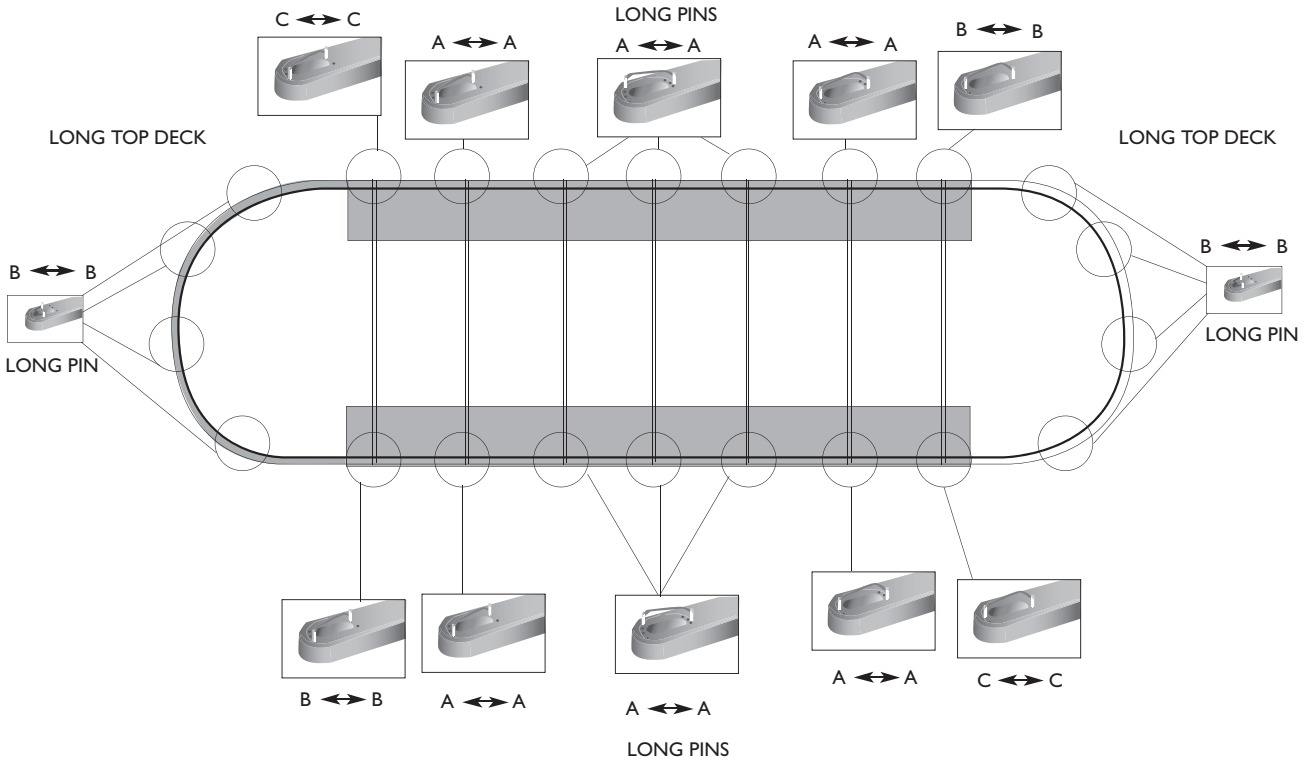
7.99m x 4.57m



9.13m x 4.57m



11.41m x 4.57m

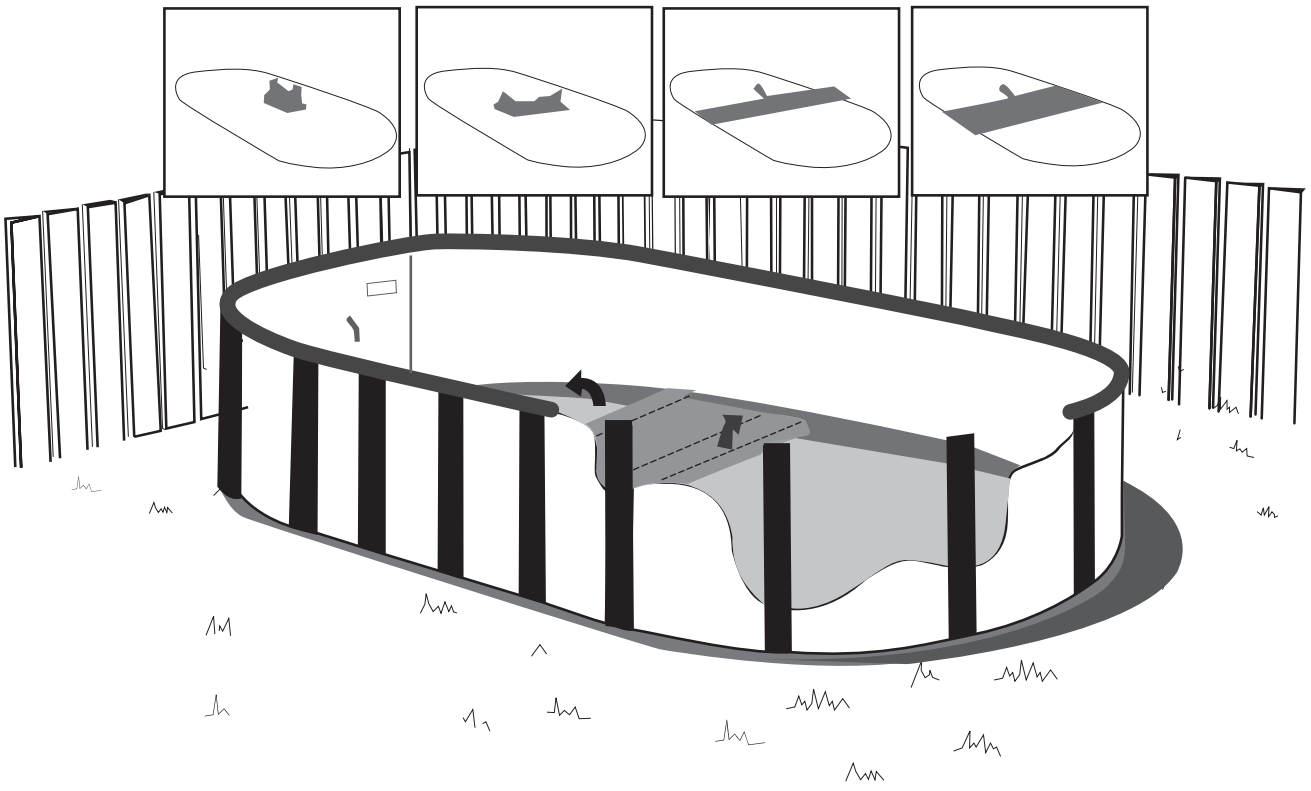


STEP 33.

LINER INSTALLATION

The installation process requires 2 or 3 people. Firstly lift the carton containing the liner into the centre of the pool and open the carton. At the radius end where you are commencing to install the liner it will be necessary to remove the top decks to hang the liner over the wall. Temporarily replace the decks as you proceed to hang the liner around the pool wall. This is very important if you do not refit the decks as you go the wall may collapse damaging the pool wall and liner.

IMPORTANT: Do not use a knife or a sharp instrument to open the liner carton as the liner can be damaged which is not covered under warranty.



Use the liners vertical seam as a guide and make sure the seam is vertical and perpendicular to the wall and the bottom.

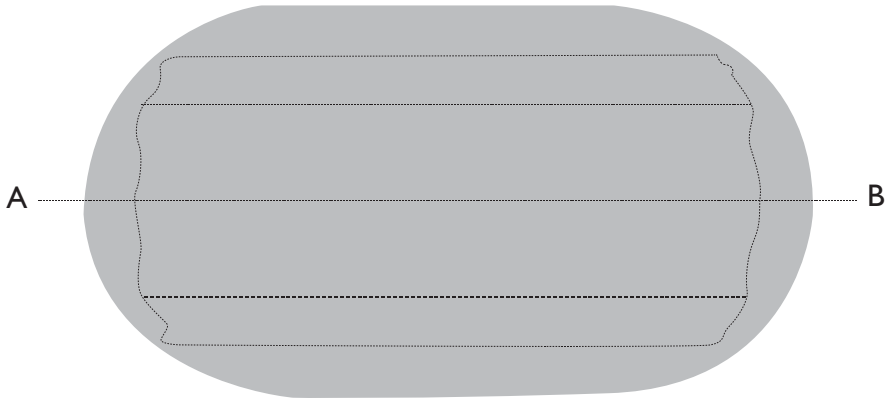
Important: The liner is generally smaller than the support structure of the pool. Because it stretches more easliy when warm, it is important that the liner be installed on a warm sunny day.

NOTE: Use footwear with soft flat soles to reduce indentations in the sand.

NOTE: You will need to progressively remove each section of the top deck to hang the liner and then temporarily replace the topdeck section.

NOTE. When filling a deepend pool, several weights (sand bags) need to be place on the liner around the 200mm ledge of the deepend section to prevent the weight of the water pulling the liner away for the sand coving.

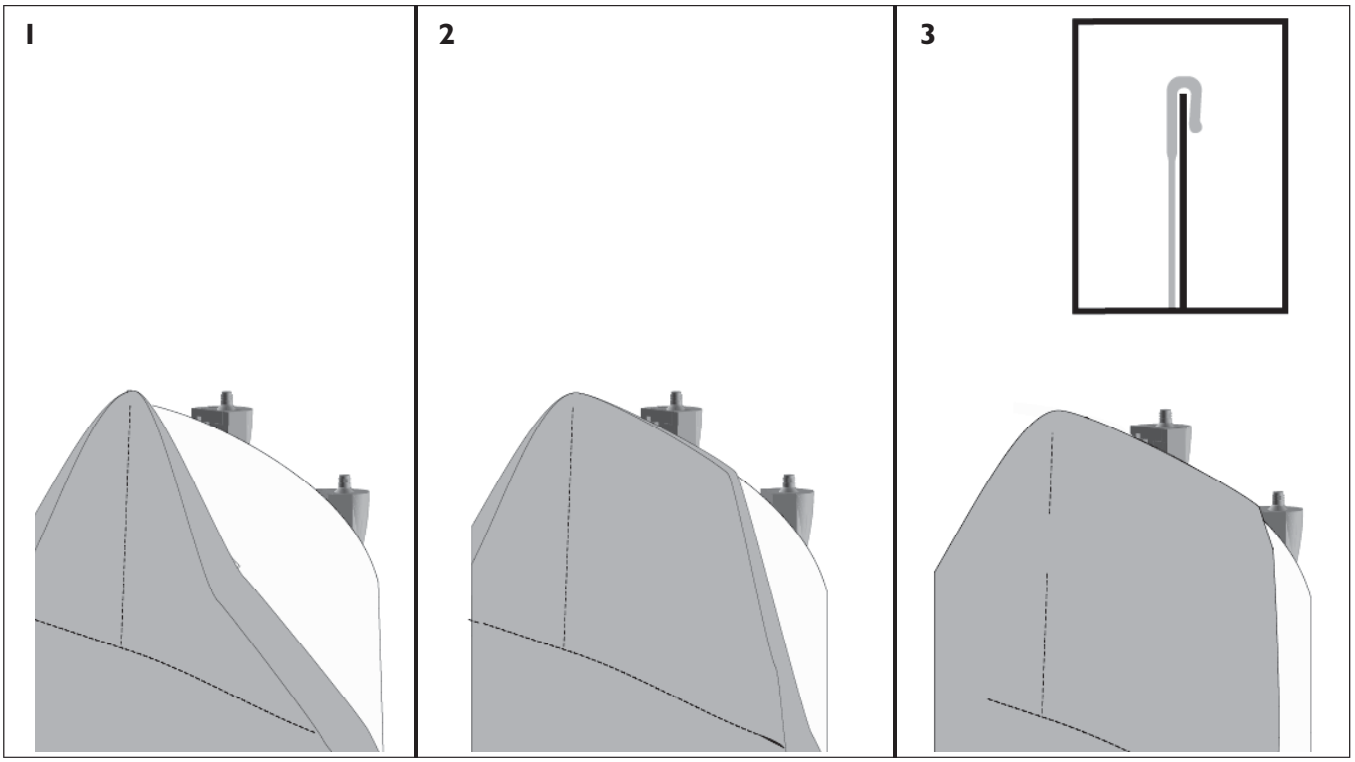
STEP 34.



Use the liner's bottom seam(s) as guide and make sure the seam(s) are parallel to the straight sections and to the imaginary line which links points A and B in the illustration above. It is recommended that you begin installing the liner in a round section.

Avoid leaning heavily against the wall when getting into the pool as this could damage it. Remove the liner from the centre of the pool toward the sides.

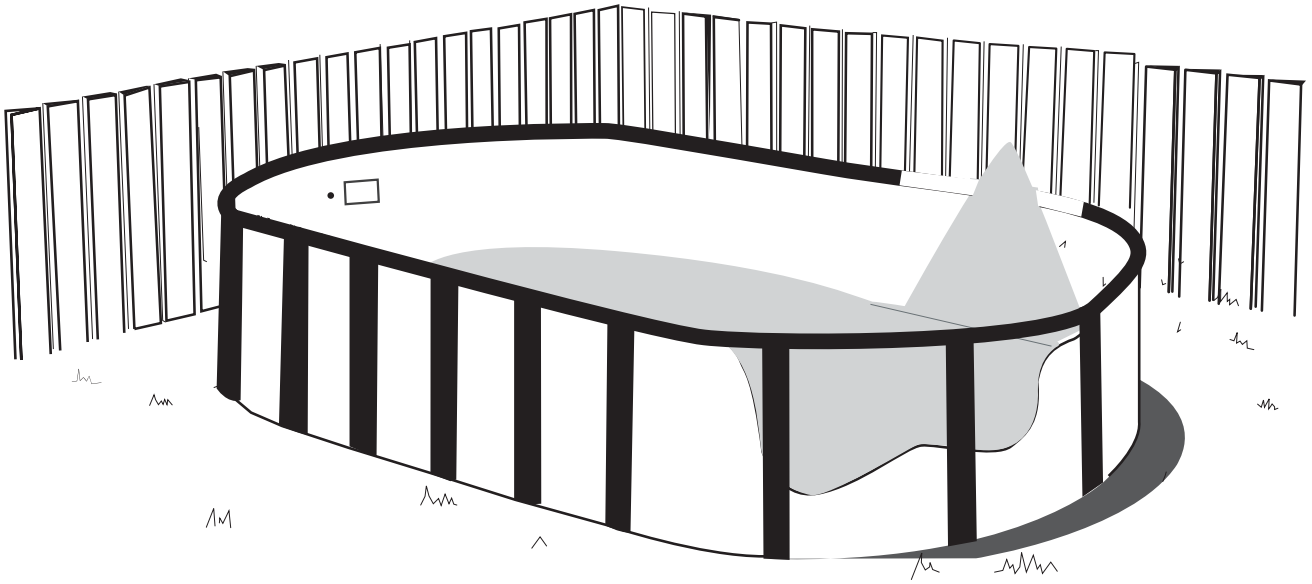
STEP 35.



Hung liner:

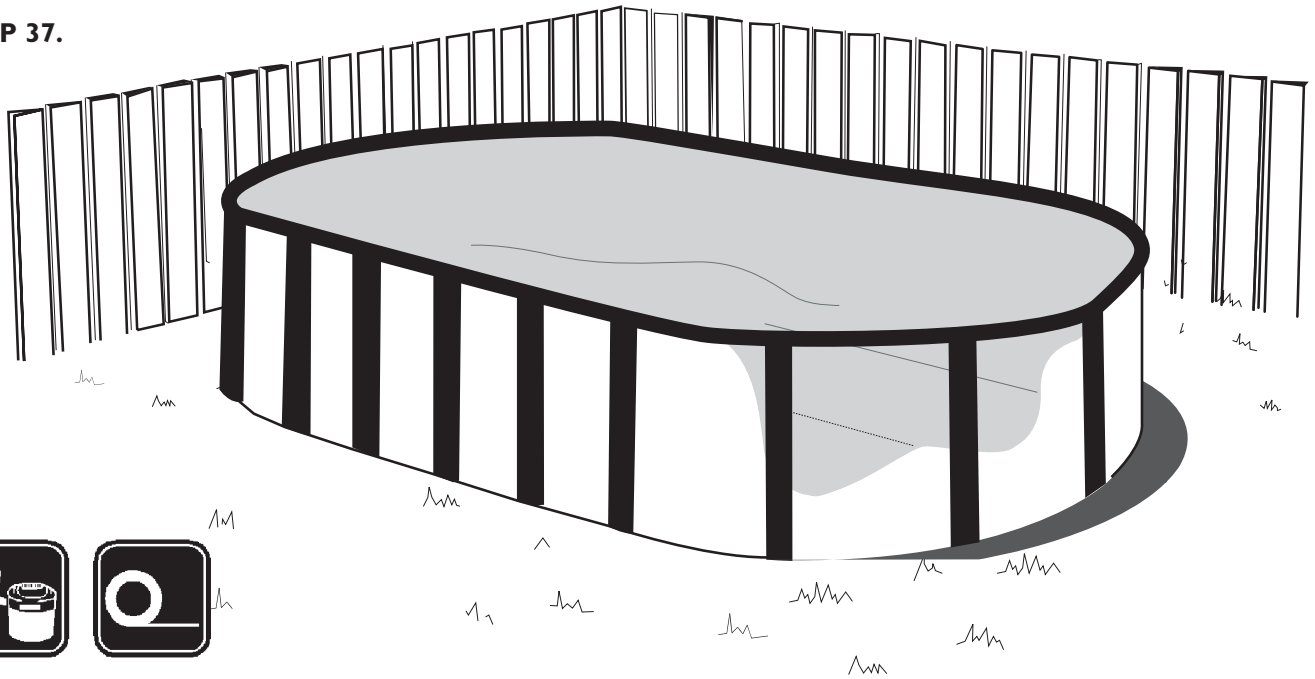
To install the liner, use its vertical seam as a guide and make sure the seam is vertical and perpendicular to the bottom seam between wall and bottom. Make sure the bottom seam between wall and bottom sits on the cove. Hang the liner onto the wall.

STEP 36.



Make sure the seam between the wall and bottom sits on the cove.

STEP 37.



An ordinary vacuum cleaner can be used to remove the air between the liner and the wall. This technique helps you to remove folds in the liner. However, the following precautions should be taken:

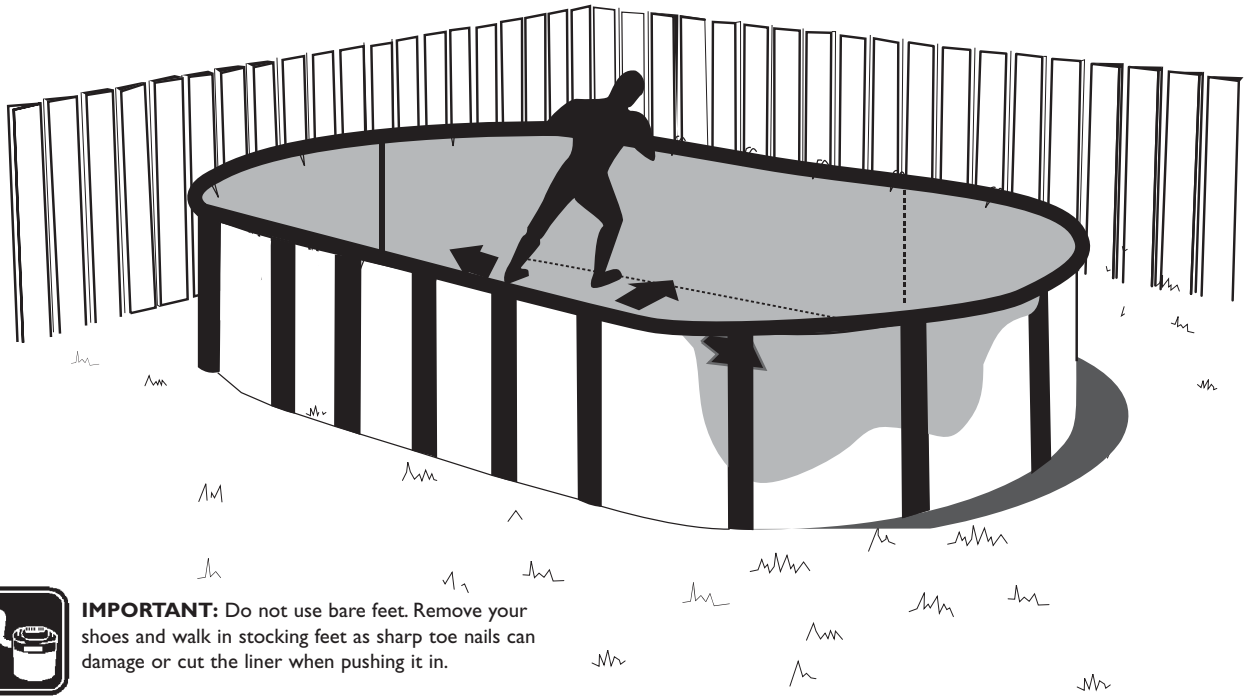
- Do not use an industrial vacuum cleaner, which could be to powerful.
- Tape the end of the vacuum hose before inserting it into the return water hole as not to damage the liner. Seal the hose to the wall with tape to prevent air leakage.

Materials:

– Cardboard

- Insert the vacuum hose approximately 20 cm (7) into the wall, and ensure that you will be able to remove it later on.
- Attach the hose to the wall with tape.
- Cover the skimmer hole with cardboard and tape in place to prevent air leakage.

STEP 38.

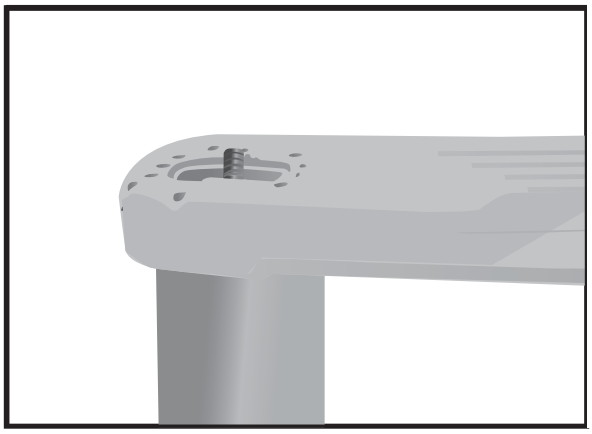


IMPORTANT: Do not use bare feet. Remove your shoes and walk in stocking feet as sharp toe nails can damage or cut the liner when pushing it in.

Before turning on the vaccum cleaner make sure the bottom seams are even on the coving and the perpendicular seams are vertical.
Turn on the vacuum cleaner. As the vacuum pulls the liner tight against the wall. Push the liner outward with your feet to iron out any folds in the floor. The liner should now be drawing correctly back into the pool wall. At this point you can start running water into the pool, you will need to keep the vaccum running until you have at least 150mm of water in your pool.

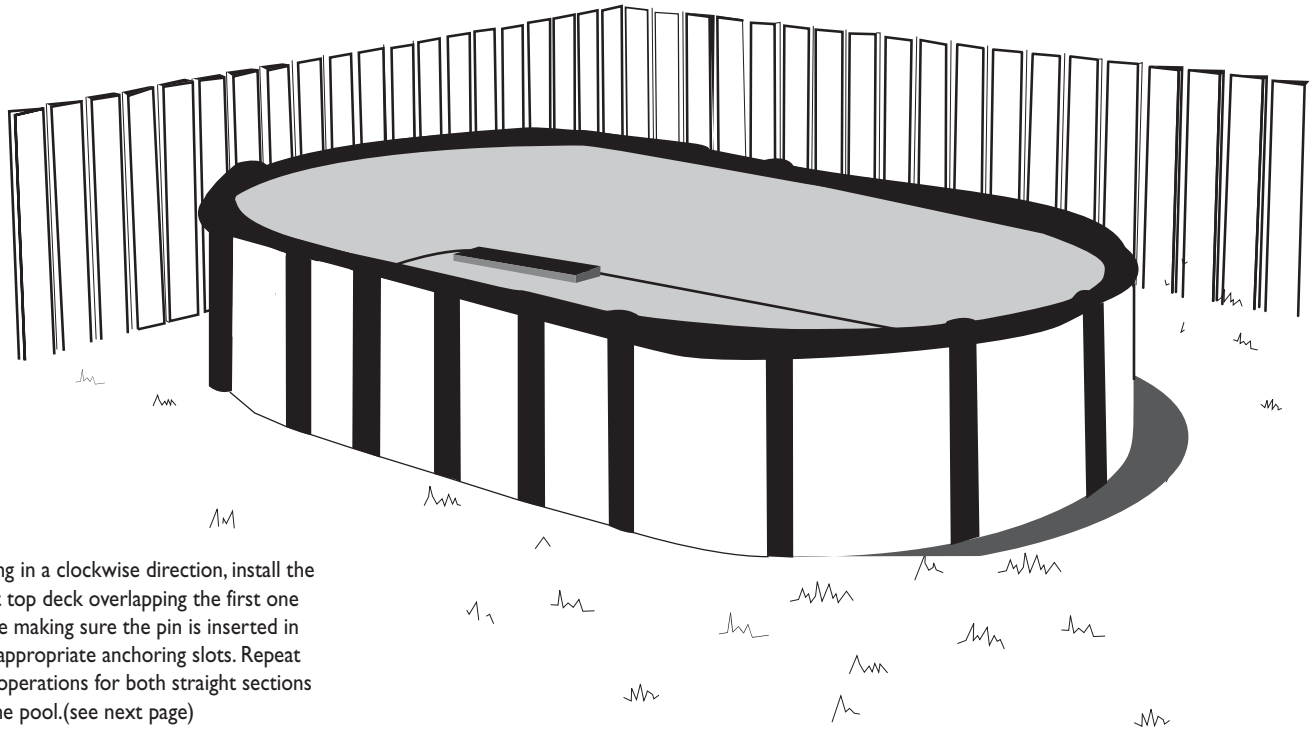
STEP 39.

It is now the time to permanently reinstall the top decks. it is important that you start installing the top deck ofthe straight side section first before proceeding with the installation of the long top deck (round section). Install the first top deck on the wall making sure the upright is leveled and situated in the middle of the top deck hole.



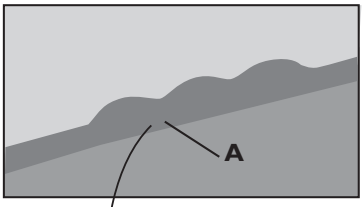
Model Size	2012 3.66 x 5.94 m	2412 3.66 x 7.08 m	2315 4.57 x 6.85 m	2715 4.57 x 7.99 m	3015 4.57 x 9.13 m	3815 4.57 x 11.41 m
Long	8	8	10	10	10	10
Short	4	6	4	6	8	12

STEP 40.



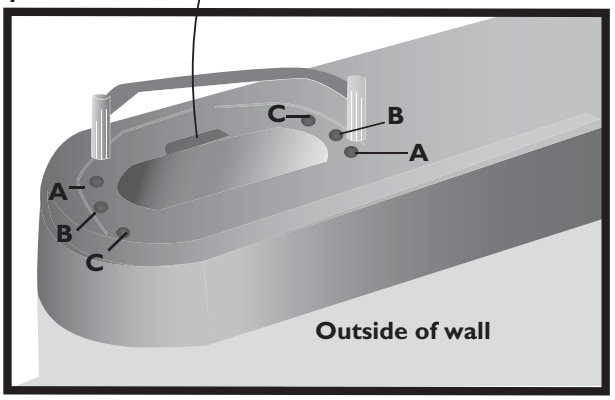
Going in a clockwise direction, install the next top deck overlapping the first one while making sure the pin is inserted in the appropriate anchoring slots. Repeat the operations for both straight sections of the pool.(see next page)

STEP 41.

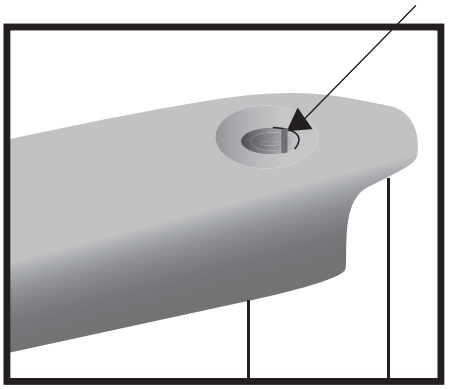


— alignment notch

1



2



A = 12' = 3.66m

3.66m x 7.08m; 3.66m x 5.94m; 4.57m 7.99m;
4.57m x 9.13m; 4.57m x 6.85m; 4.57m x 11.41m

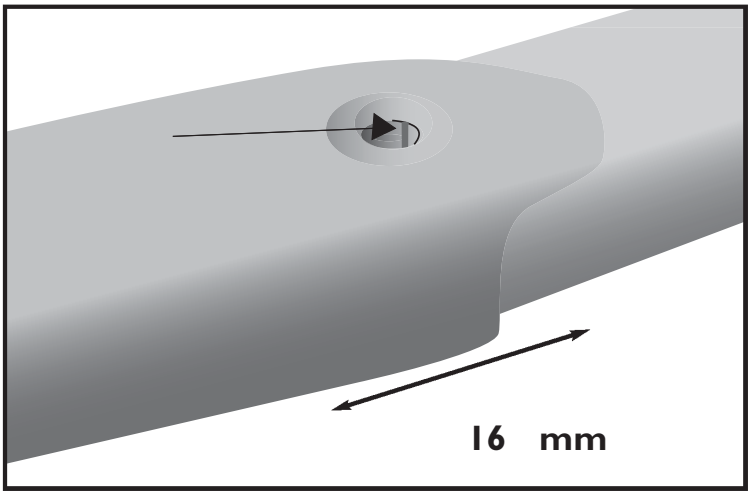
Going in a clockwise direction, install a long top deck (round section) on a short top deck. To make it easier to locate the interior alignment slots while you are installing the top deck, alignment notches have been added close to each pin (male part of the top deck) (illustration 1).

These notches will help you locate the central alignment slot corresponding to each pool size. Simply move the arrow on the interior of the top deck cap (illustration 2) towards the appropriate notch (A). Repeat these operations to complete the top deck installation of the round section of the pool.

NOTE: Standing on the outside of the pool, line up the left hand notch with the arrow on the top deck.

STEP 42.

A



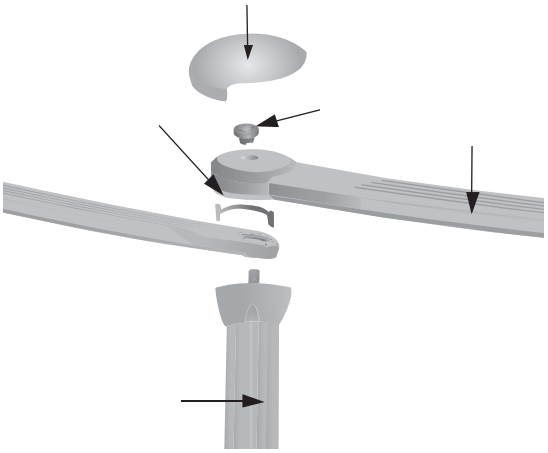
B

To make the pieces fit together, you may have to use the adjustment points provided for this purpose and move the top deck to the left or right. In this case the top deck should be moved approximately 16mm to the left or the right (illustration A) to ensure that upright is levelled and situated in the middle of the top deck hole. See step 39. Screw the top deck in place with the EZ-lock system (illustration B). Repeat these operations to complete the top deck installation.

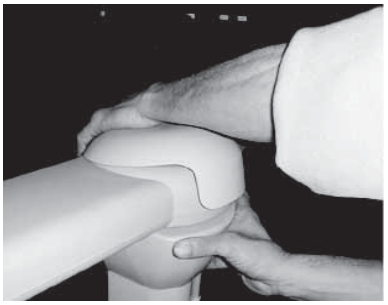
Model Size	**2012 3.66 x 5.94 m**	**2412 3.66 x 7.08 m**	**2315 4.57 x 6.85 m**	**2715 4.57 x 7.99 m**	**3015 4.57 x 9.13 m**	**3815 4.57 x 11.41 m**
E-Z Lock	13	15	17	19	15	23

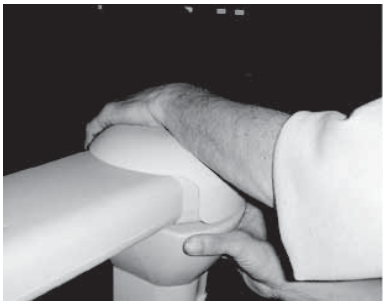
STEP 43.

You must now install the deck caps. The deck cap clips onto the EZ-Lock. Apply a downward pressure on the cap clips around the EZ-Lock.

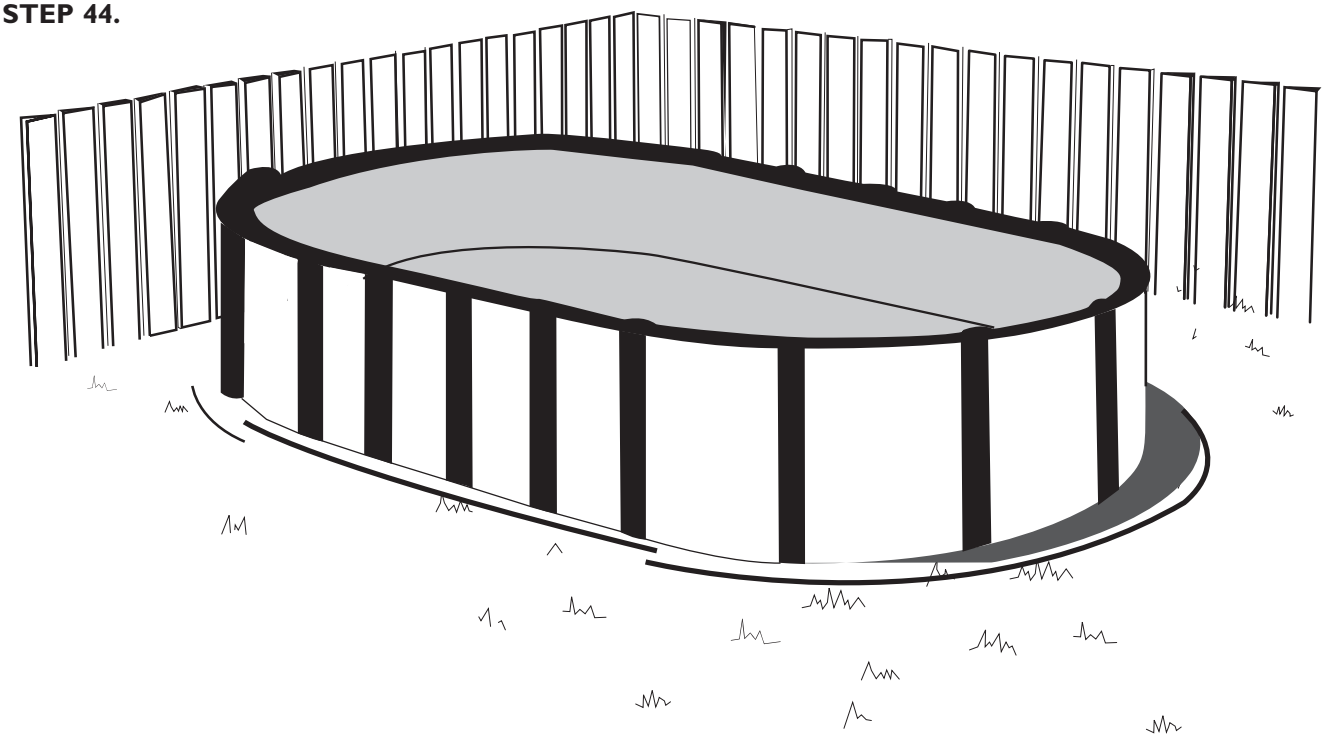


Installation is performed in 2 steps as per Demonstration align from the inside to the outside. B) Clip the deck cap to the EZ lock by grabbing and pulling it toward the outside of the pool while simultaniously pushing the upright toward the inside (c).
Important: Excessive pressure may damage this part.





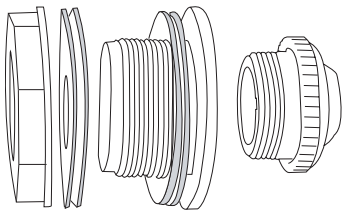
STEP 44.



IMPOR TANT:

Carefully remove the hose of the vacuum cleaner from the pool. Begin filling your pool with water.Before making any openings in the liner to fit the skimmer fill the pool with 60 cm (24") of water to stretch the liner fully to the skimmer box cut out. At this point you may fit the skimmer box and eyeball fitting as per the following instructions.

ONE PIECE RETURN FITTING



One piece return fitting installation this step is not to be commenced until there is at least 60cm of water in the pool.

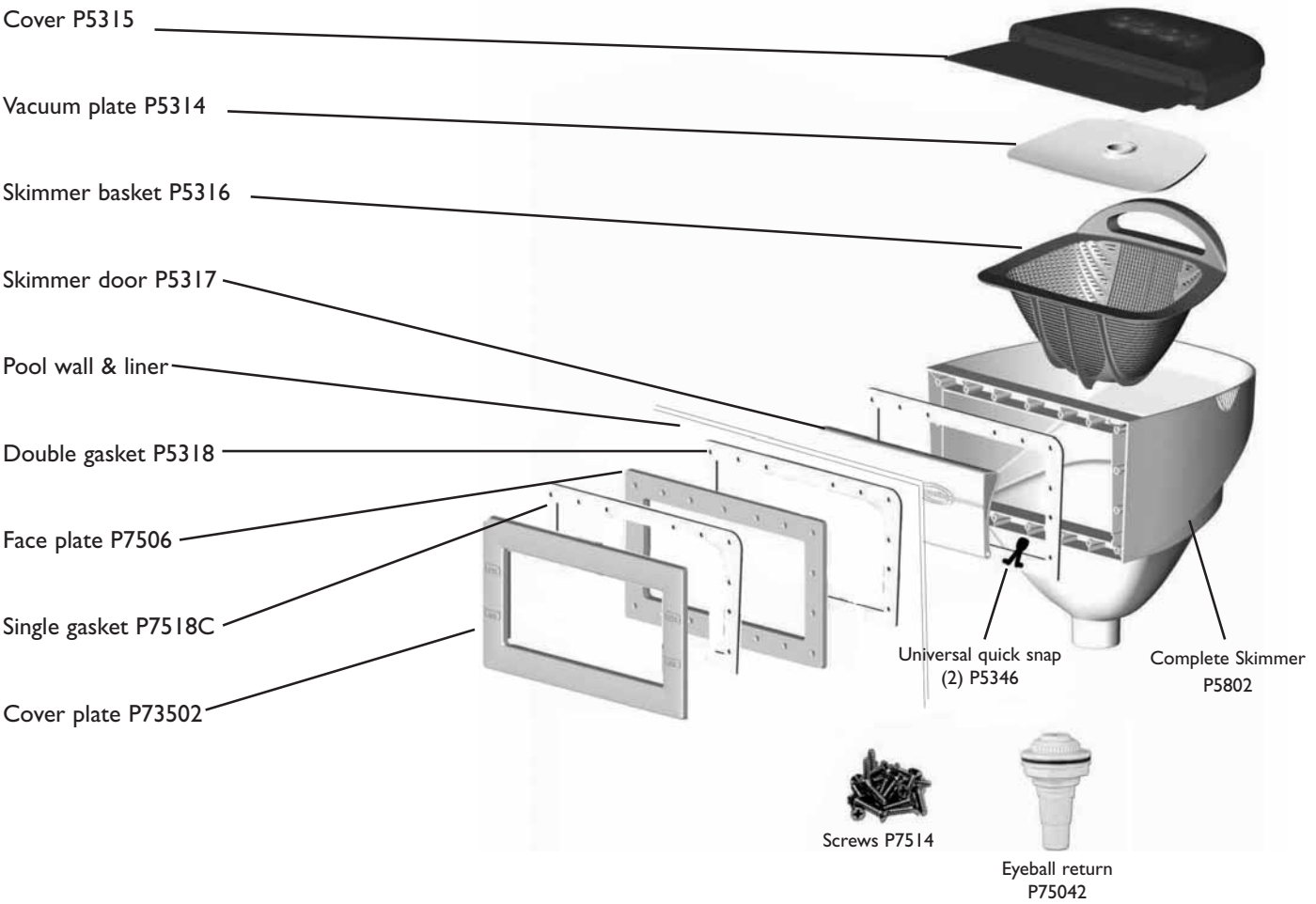
Before attaching the return fitting to the pool, it is necessary to cover the threads of the return fittings with a thin layer of Teflon tape to ensure a watertight seal.

1/ Using a small piece of cardboard push the liner back against the metal pool wall to locate the exact position of the circular cut-out in the wall, and using a sharp knife carefully cut a circular hole in the liner (from the outside) approximately 3mm smaller than the cut-out in the metal wall.

2/ Fit a cork gasket over the barrel of the fitting and a rubber gasket between the pool liner and the metal pool wall, and push the fitting through the wall from the inside of the pool.

3/ The remaining rubber gasket and the cork gasket are now fitted over the barrel fitting from the outside of the wall, with the rubber gasket up against the pool wall, the lock nut is now screwed onto the barrel and tightened firmly to ensure a watertight seal, care must be taken to ensure that the locknut is not over tightened causing the flange on the barrel to rotate and distort the liner, if this occurs the lock nut should be loosened, the gaskets repositioned and the lock nut re tightened.

4/ The adjustable directional eyeball fitting, can now be screwed into the face of the wall return fitting. The outlet in this fitting (the return to the pool) should face away from the opening (the inlet) to the weir skimmer assembly.



SILICONE SEALANT REQUIRED (NOT SUPPLIED)

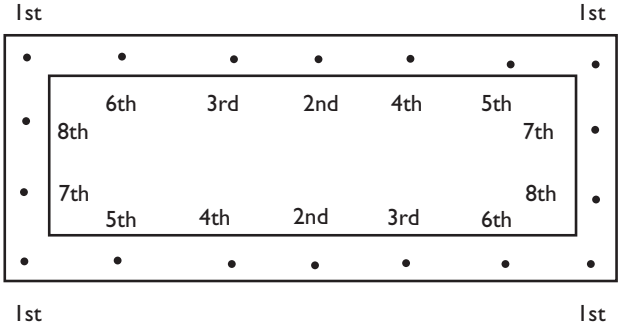
Important notice: Do not use the silicone sealants that are designed for use with windows and glass as they have an acidic cure and can damage vinyl and some plastics. If the sealant smells like vinegar do not use it for this application.

A. Insert the double layer gasket around the cut out in the pool walll that there is a gasket layer on each side of the pool wall and the screw holes line up (DO NOT UNDER ANY CIRCUMSTANCES CUT THE GASKET.)

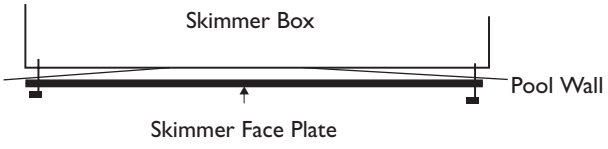
B. Silicone sealer should now be applied to the back of the face plate, the front of the weir skimmer box, and to both sides of the single rubber gasket in a single bead of approximately 5mm to assist in forming a leak proof seal between the liner and the pool wall.

C. Use the screws supplied to locate the 4 corner screw holes of the skimmer box. Please make sure that the pool water depth is at least 60cm before fitting the skimmer box as the liners can be under very high tension in the initial stages of filling the pool and skimmer installation at this time can damage the liner. The four (4) corner screws are fitted from inside the pool, through the face plate, single gasket double gasket and the pool wall, through into the skimmer box. Initially tighten screws 3 to four turns only.

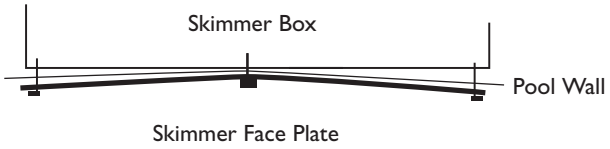
D. With the four corner screws holding the skimmer box in place begin screwing in the upper and lower centre screws so that the face plate starts to bend into a similar shape to the pool wall (do not over tighten screw.)continue fixing the screws from the upper and lower centre position outward, as indicated by the numbering sequence below.



Tighten the four corner screws first once all others are in place.



1. Face plate position with 4 corner locating screws in place



2. Face plate position with centre screw almost completely fastened

E. Continue to fasten screws until all screws are tight, being careful not to over tighten the screws. Higher voltage cordless drills can strip the thread in the skimmer box. Upon tightening a small amount of silicone sealant may be extruded from between the face plate and the pool liner, this should be wiped with a rag as to remove any unsightly excess. Allow the recommended cure time for the sealant before immersing in water.

F. The opening for the skimmer box can now be cut into the liner. It is important that this area be checked for leaks periodically. (You can now cut the opening in the liner.)

G. Congratulations. The assembly/installation of your pool is now complete. You may now install the filtration motor/pump as per the equipment suppliers instructions.

H. Operating instructions

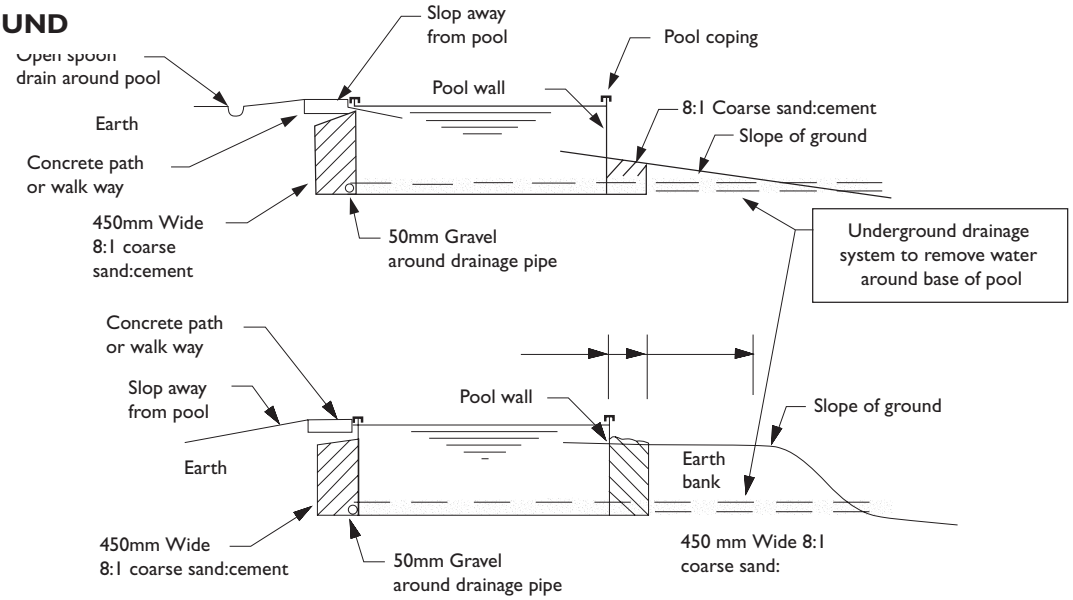
1. To adjust inlet flow direction loosen knurled outer ring of eyeball fitting, move ball to desired position and tighten knurled ring hand tight..
2. To clean basket, only remove skimmer cover and pull it out.
3. To attach vacuum cleaner hose, remove top cover. Put the vacuum adapter into the skimmer fill hose with water and insert vacuum hose to the vac adapter.

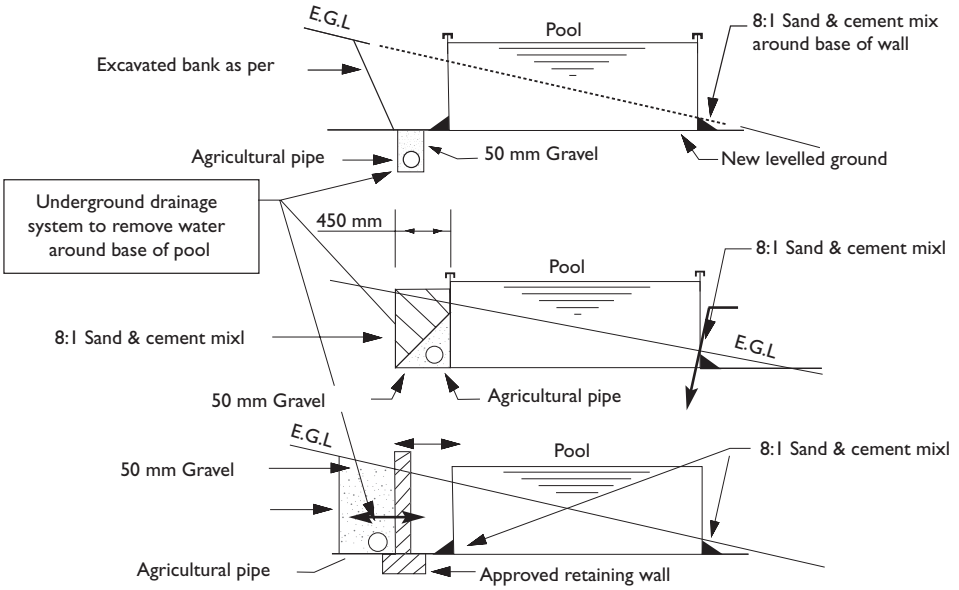
Backfill Requirements for Noosa Reef Inground Installation

E. IN GROUND INSTALLATION

It is imperative when any part of the pool is installed below (finished) ground line, for inground installation or a sloping site the pool wall must be maintained in a stable condition by carefully placed sub-soil drainage and prepared back-fill. The maximum inground for the walls is 1220 mm, for pools up to 12m in length.

POOL IN GROUND





APPROVED RETAINING WALL

BY LOCAL AUTHORITY

NOTES:

1. Prior to any backfilling, the pool is to be full of water for one day, check for any leaks.
2. Walls to be backfilled with 8:1 coarse sand/cement mix (machine mixed).
   Use only sufficient water to hold mix together. Do not over moisten the mix. Ensure pool is full before commencing backfill. Maintain pool full for one month after backfill.
3. Agricultural pipe to be continuous and sloped to the free outlet.

POOL CARE
1. CONTROL OF "pH"

The pH is the measure of acidity or alkalinity of the pool water. If the pH is incorrect, anti-bacterial treatment will not be completely effective. The ideal pH for swimming pools is between 7.4 and 7.6. These should be checked daily with the Pool Water Test Kit.

The following table describes how to control the pH.
Circulate the water for three hours and test the pH again, and if necessary, add further chemicals.

pH	EXPLANATION	TREATMENT
0 to 7.2	Pool water is too acidic. Eyes and skin may be IRRITATED. Metal and plastic parts may be damaged.	Add pH RAISE (Sodium Bi-Carbonate). Add no more than 25 grams per 4540 L (25 grams = 2 level tablespoons approx.)
7.4 to 7.6	IDEAL	
7.8 to 14	Pool water is too alkaline. Water may become cloudy. Liner may be damaged.	Add pH REDUCER (Sodium Bi-Sulphate). Add no more than 25 grams per 4540 L (25 grams = 2 level tablespoons approx.)

2. ANTI-BACTERIAL TREATMENT

One method of keeping the swimming pool free of harmful bacteria is by adding Chlorine to the water using Daily Dose Chlorine (Calcium Hypochlorite) in powder or tablet form. However, Ultra Violet light from the sun quickly reduces the Chlorine Residual - the amount of Chlorine available to fight bacteria. By adding Stabiliser (Cyanuric Acid) the Chlorine loss can be reduced. The Cyanuric Acid level should be maintained at 50 parts per million. Cyanuric Acid Test Kits are available from your Dealer. The ideal Chlorine Residual is between 1.0 and 1.5 parts per million (p.p.m.) for unstabilised pools and 0.6 to 1.0 p.p.m. for stabilised pools. This should be checked daily with the Test Kit.

If using Nature^2 chlorine usage should be reduced by 70%.

3. STEP-BY-STEP TREATMENT

Initial or New Season Treatment

1. Adjust pH to between 7.4 and 7.6.
2. In the evening, add Chlorine at a rate of 10 grams per 1000 litres.
   If the pool is to be stabilised: approximately 12 hours after adding Chlorine, add Stabiliser (Cyanuric Acid).
3. Run filter all night.
4. Chlorine Level: For healthy sparkling water the chlorine level should be between 0.6 and 1.0 p.p.m. in "stabilised" pools and between 1.0 and 1.5 p.p.m. for "unstabilised" pools. The use of Stabiliser will maintain the chlorine level for a longer time as it acts as a sunlight screening agent and thus minimises the loss of Chlorine caused by sunlight.

   Remember the usage rates vary according to climatic conditions and the number of people using the pool.
5. Testing: Testing of pool water should be carried out in the morning and additions of Chlorine made in the early evening. pH RAISE and pH Reducer can be added when required but always be certain to spread the chemicals over the whole pool.

Daily Treatment - Unstabilised Pools

As a guide, 10 grams per 1000 litres should be sufficient to maintain a chlorine residual of 0.6 to 1.0 p.p.m. in the pool water, but naturally the dose will vary according to climatic conditions and how much the pool is used. Note: Do not place liquid chlorine manually. Refer to Important Information on page 1.

Daily Treatment - Stabilised Pools

When the pool water has been stabilised, the use of 2.5 grams per 1000 litres of Chlorine should be sufficient to maintain a chlorine residual of 1.0 to 1.5 p.p.m. Check the level with your Test Kit and vary the dose if necessary. Stabilised pools have to be super-chlorinated once every two weeks and this is done by adding Chlorine at the rate of 5 grams per 1000 litres of water. Note: Do not use liquid chlorine.

Shock Treatment

Should algae or objectional odours occur, add 14 grams of Chlorine per 1000 litres in the evening when the pool is not in use and run filter for 2 hours to disperse the chemicals.

Chemical Quantities

To Add Chemicals: Dissolve the chemicals in a half-filled bucket of water and pour into the pool in the stream of returning filter water or while walking around the pool. When chlorine is dissolved in water a Calcium Residue is formed. This can be kept out of the pool by allowing the bucket to stand for an hour and then pouring the solution slowly over the lip of the bucket, retaining the residue in the bottom of the bucket.

4. SAFETY AND CHEMICALS

Personal Treatment: Avoid contact with the eyes, skin or clothing. Wash immediately if there is any spillage.
Not to be taken internally - harmful if swallowed.
Add chemicals to water: Not water to chemicals
First Aid & Antidote: If concentrates are spilt on skin, eyes or clothing, flush with copious quantities of water for 15 minutes and then seek medical attention.
If poisoning occurs contact a doctor or Poisons Information Centre listed. DO NOT induce vomiting. Give plenty of water or milk.
Note: If Pool Stabiliser (Cyanuric Acid) is swallowed induce vomiting. Give plenty of water or milk.
Storage: Store under cover in a cool, dry, clean, well-ventilated place away from acids, reducing agents, ammonium compounds, wood shavings, sawdust, paper, fabrics, petrol, kerosene and other combustible materials.
Handling: Keep the container away from moisture, do not allow to get damp. Avoid naked flames.
Open the container carefully and do not inhale the dust. Replace the lid immediately after use to keep out moisture and contaminant.
Never mix different chemicals. In case of fire, drench with plenty of water.
In case of poisoning contact your local Poisons Information Centre.

5. POINTS OF SAFETY

- Have a CPR chart within the pool area
- Always have an adult swimmer present when children or non-swimmers are using the pool.
- When swimming alone, make sure that someone nearby is aware that the pool is in use.
- After eating, wait at least thirty minutes before entering the water.
- Do not dive or jump from the pool edge, or endanger others with stunts.
- It is wise not to swim in the pool when suffering from an infectious disease.
- Never swim under the influence of alcohol.
- Avoid tracking dirt into the pool. Do not throw or bring hard or sharp objects into the pool, as they damage the liner. Keep pets out of the pool.

It is wise to learn mouth-to-mouth artificial respiration

Children are precious. Please take due caution to ensure that they are supervised at all times whilst in and around the pool area.

Contact your local dealer for a range of pool safety stickers.

6. LADDER SAFETY

Be sure to fill the ladder bases with sand. (not water) and to submerge the run which will be placed into the pool, this will remove any air from inside the run and allow the run to sit correctly.

My pool wall & bottom are slippery. What is the problem?

One of the first signs of incorrect chemically treated pools. Chlorine residual is too low, pH incorrect.
Check with test kit, adjust chlorine and pH. Also first sign of algae growth. Check with test kit, adjust chlorine & pH.

Why is my water cloudy?

Incorrect pH and chlorine reading. Check with test kit, maintain 7.2 - 7.6 pH, 1.00 - 1.5ppm chlorine. Let pool stand after adjusting for 24 hours before running filter. See Nature 2 Q & A.

In the case of eye irritation, what should I do?

Check pH reading. Too low (over acidic) add pH up.

Do I add chemicals to my filter?

NO. Pool chemicals should not be added directly to the filter or surface skimmer. Diato maceous eart (DE filters only) is the only item that should be added to the skimmer or filter.

How often should I change my pool water?

With proper filtration and chlorination, the water can stay in your pool indefinitely. Small amounts of water will have to be added to compensate for splashing and evaporation.

My pool has an unpleasant odour. What is the matter?

Increase chlorine dosage. Maintain a minimum of 1.00-1.5ppm chlorine range. Check pH reading.

Where can we obtain replacement parts?

Be sure you include the name & item number or a complete description of your pool. Contact your local pool dealer.

NATURE^2 QUESTIONS & ANSWERS

What is Nature^2?

Nature^2 is a water purification system which provides safe, clear & refreshing water without heavy chemical use.

How does Nature^2 work?

The Purifier directs water through a 6 month cartridge which contains a mineral bed that kills bacteria, algae and viruses on contact. Next, Nature^2 releases trace amounts of silver into the pool to help prevent bacteria and algae growth.

How does pool care change if I use Nature^2?

Chlorine usage will be reduced by 70%. Other pool care requirements remain unchanged.

Is Nature^2 a filter?

No. A filter removes particles and debris, while Nature^2 disinfects pool water by killing bacteria, algae and viruses, which are too small to be caught by a filter. You need a filter and Nature^2.

Do I still need to use chlorine? Why?

You need to use a small amount of residual oxidizer. With Nature^2 you can reduce this by up to 70%.

Are low levels of minerals safe in a pool?

The minerals in Nature^2 pose no health risks. Water treated by Nature^2 actually exceeds EPA drinking water standards for bacteria, silver and copper.

Can Nature^2 stain?

No. In fact Nature^2 offers a 'no-stain' warranty.

Is Nature^2 an 'ioniser'?

No. Ionisers electrically discharge copper (or metal alloy) ions into the water. But Nature^2 non-electrically converts oxygen to sanitiser, and releases bactericidal and algaestatic minerals.

QUESTIONS & ANSWERS

How can I care for my pool wall?

Wash periodically with a mild soap. Where seashore salt water is present use clear non-yellowing household or autowax on metal parts. Coat all exposed screw & bolt heads with clear outdoor varnish or matching paint.

Scratches on the pool wall & frame may be touched up with colour matched enamel paint available from your pool dealer or hardware store.

What should I do in case of corrosion?

Tighten & seal around your skimmer & inlet if corrosion appears in these areas. Carefully wirebrush away all loose material on affected areas of the wall. Apply a coat of anti-rust enamel primer & allow to dry. Apply a coat of colour matching anti-rust enamel paint. It is important to maintain a strict periodic pool wall inspection schedule.

How often should I filter my pool?

Run the filter for a minimum of 8 hours per day during the swimming season. In the winter run for 2-3 hours per week or as required.

Can I vacuum my pool?

Use a vacuum head with soft/smooth edges on liner surfaces.
DO NOT attempt to vacuum up leaves, twigs, stones or other debris. Large debris must be netted from the pool before vacuuming.

Can I use a pool cleaner?

The Barracuda ZOOM automatic pool cleaner is specifically designed for this pool and is recommended by Zodiac Group Australia Pty. Ltd. Only use pool cleaners designed for vinyl liner pools.

What should I do with my pool during vacation?

Check & adjust pH. Raise chlorine level to 3ppm if you are not using N2. Engage a responsible person to check and keep chlorine level to 3ppm (if you are not using N2) and run filter for at least 4 hours every 4-5 days. Use cover if possible. See Nature 2 Q & A.

Can I mix chemicals with chlorine?

NO, DEFINITELY NOT UNDER ANY CIRCUMSTANCES. Mix & disperse chemicals as described in instructions.

Why does my pool water turn green?

Because of algae growth. Algae may impart a green, red or brownish colour to the water. (Or phosphates in your water).

What is algae?

Algae is a microscopic plant life that thrives and multiplies very rapidly in warm, unchlorinated, nutrient rich water or water that has an incorrect pH.

Algae causes slimy patches and stains to develop on the bottom and sides of the pool.
However, whilst the pool water may appear to be clear it is possible that algae growth is present.

How do I remove algae from the pool?

The only way to ensure that the algae growth is restricted is to ensure that your water is chemically treated correctly with a chlorine residual of no less than 1.00ppm - 1.5ppm and a pH of 7.2 - 7.6 on the test kit.

Add an algaecide. See Nature 2 Q & A.

When is the best time to chlorinate my pool?

In the evening when the sun has gone down and the day's swimming is completed. High temperature and sunlight tend to dissipate chlorine rapidly.

LIMITED WARRANTY
FOR ZODIAC POOL LINER, SIDEWALL STEEL, RESIN AND OTHER STRUCTURAL COMPONENTS

TERMS AND CONDITIONS

The Zodiac Pool Liner, PVC Components, Sidewall Steel, other Structural Steel and Resin Components of this Zodiac Pool are warranted by Zodiac Group Australia Pty Ltd ("Zodiac") from the date of purchase to the extent set out in the terms and conditions below ("Warranty"):

ZODIAC STEEL SIDEWALL AND OTHER STRUCTURAL STEEL & RESIN COMPONENTS (ZODIAC AND VOGUE POOLS STEEL & RESIN STRUCTURAL COMPONENTS) – 20 YEAR PRO-RATA LIMITED WARRANTY

1. Zodiac, at its sole option, will replace any Zodiac structural steel or resin components which Zodiac reasonably finds to be defective during the first five (5) years from the date of purchase.

2. Zodiac will replace any Zodiac steel or resin structural components, which Zodiac reasonably finds to be defective in the sixth (6th) year from date of purchase at the pro rated cost of 25% to the purchaser at the manufacturers suggested retail price for the replacement components at the time of the accepted claim. From the beginning of the seventh (7th) year to the end of the twentieth (20th), the cost of the replacement to the purchaser will increase by 5% on the annual anniversary of the purchase. (i.e. during the tenth (10th) year the cost to the purchaser will be 45% -25% plus 5% for each of the preceding four years to the tenth (10th).

PRINTED POOL LINER AND PVC COMPONENTS 5 YEAR PRO-RATA LIMITED WARRANTY

3. Zodiac, at its sole option, will repair or replace free of charge the Zodiac Hung Printed Pool Liner or PVC Components which Zodiac reasonably finds to be defective in the first year from the date of purchase.

4. Zodiac will replace the Zodiac Hung Printed Pool Liner or PVC Components which Zodiac reasonably finds to be defective from the second (2nd) year to the end of the fifth (5th) year from the date of purchase at a pro-rated cost to the purchaser equal to the following corresponding percentages of the manufacturer's suggested current retail price for the replacement Zodiac Hung Printed Pool Liner or PVC Components at the time of the accepted claim:

second year	–	20%;	fourth year	–	60%;
third year	–	40%;	fifth year	–	80%.

CONDITIONS AND LIMITATIONS:

1. This Warranty will not apply unless the Registration Certificate accompanying the products has been completed, detached and returned to Zodiac Customer Service, Zodiac Group Australia, PO Box 7238, Wetherill Park NSW, 2164 within thirty (30) days of delivery of the Zodiac Pool and equipment to the purchaser.
2. Any claim under this Warranty must be made in writing to the Zodiac Pool dealer where the Zodiac Pool was purchased accompanied by proof of purchase receipts.
3. If Zodiac should so request to inspect any parts alleged to be defective, such parts are to be delivered at the purchaser's expense to the Zodiac Pool dealer where the Zodiac Pool was purchased.
4. Any Zodiac Pool Liner, Zodiac Structural Steel or Resin Components requested to be returned by Zodiac pursuant to paragraph 3 must first be cleaned and dried, so as not to cause a health hazard, otherwise such Zodiac Pool Liner, Zodiac Structural Steel or Resin Components, would not be accepted nor inspected and will be returned to the purchaser at the purchaser's expense.
5. This Warranty does not cover any labour costs which, in Zodiac's reasonable opinion, may be necessary or desirable in relation to repairing or replacing any defective Zodiac Pool Liner, Zodiac Structural Steel or Resin Components or any other part covered by this Warranty including, but not limited to, dismantling and re-installing the Zodiac Pool, the Zodiac Liner, any Zodiac Structural Steel or Resin Components or any other accessories. Zodiac (or its nominated Zodiac representative) reserves the right, at its discretion, to make all reasonable charges to the purchaser for any replacement, repairs and inspection of repair work performed by, or on behalf of, Zodiac in relation to a claim made under this Warranty.
6. The purchaser will be responsible for all transport and freight costs relating to any repair or replacement of the Zodiac Pool Liner or Zodiac Structural Steel or Resin Components under this Warranty.
7. This Warranty is not assignable nor transferable.
8. This Warranty will not apply in the following circumstances:
   (a) Any damage caused to the Zodiac Pool Liner, Zodiac Structural Steel or Resin Components as a result of misuse, negligence or improper care by the purchaser or as a result of any natural or man-made weed event, including, but not limited to, cuts or punctures to the Zodiac Pool Liner damage caused by nut grass, onion weed or any other noxious or ultraviolet degradation or shrinkage after initial installation;
   (b) The purchaser acquires the Zodiac Pool and/or equipment under hire purchase agreement and the pool and/or equipment is repossessed under that agreement;
   (c) The Zodiac Pool and/or equipment is used for any purpose other than for domestic swimming;
   (d) payment for the Zodiac Pool and/or equipment has not been made to Zodiac or the appointed Zodiac Pool dealer in accordance with the agreed terms at the time of purchase;
   (e) If the Zodiac Pool and/or equipment is used in conjunction with any type of automatic, electronic or salt chlorinator unless a specific written waiver for a particular system is provided by Zodiac;
   (f) If the TDS level of your pool water exceeds 2000ppm (refer to manual.)
   (g) The Zodiac Pool including the Zodiac Pool Liner, Zodiac Structural Steel or Resin Components have not been installed in accordance with the Zodiac installation manual provided.
9. Zodiac reserves the right to determine whether or not any claimed defect of the Zodiac Pool Liner, Zodiac Structural Steel or Resin Components is caused by faulty workmanship or material or that any part is defective.
10. It is the purchaser's responsibility to ensure that the installation of the Zodiac Pool and equipment comply with appropriate statutory and local government requirements. As installation and conditions of use are beyond Zodiac's control, Zodiac makes no claims that any equipment shall comply with such requirements with the exception that the specifications set out in the Zodiac installation manual are correct at the time of publication.
11. To the extent permissible by the law, Zodiac shall not be liable for any incidental or consequential damage, injury or loss (whether material or personal) arising out of any defect of the Zodiac Pool, including the Zodiac Pool Liner, Zodiac Structural Steel or Resin Components, including, but not limited to, loss of chemicals, flooding, injuries to persons, damages to property or loss of use.
12. This Warranty is the only express warranty given by Zodiac in respect of the Zodiac Pool, including the Zodiac Pool Liner, Zodiac Structural Steel and Resin Components, and excludes or replaces all warranties and conditions implied by any Federal or State legislation which may be excluded, restricted or modified under such legislation. Nothing in this Warranty, however, shall be construed as excluding, limiting or in any way affecting any rights the purchaser may have under the Trade Practices Act, 1974 or any other Commonwealth or State legislation which gives the purchaser rights which cannot be modified or excluded by agreement. If the supply of the Zodiac Pool is a supply of goods to a consumer as defined in the Trade Practices Act, 1974 ("Act"), nothing in this Warranty excludes, restricts or modifies any condition,
    warranty, right or remedy which the purchaser has under the Act. Zodiac's liability for any breach of a condition or warranty implied by the Act is, however, limited to the full extent permissible under the Act.

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Zodiac Group Australia Pty Ltd. ABN 87 002 641 965
219 Woodpark Rd, Smithfield, NSW, 2164 Australia
Customer Care: 1800 229 526 for Pools or 1800 668 552 For Pool Care Fax: +61 2 9757 2860
Website: www.zodiac.com.au

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